

CAS Annual Inspection Checklist

This form is used to document the annual inspection of the 3S Climb Auto System (CAS).

General Information

Site Name:	WTG #:	Running Hours:
Customer Name:	Car S/N:	
City, State:	Traction Unit S/N:	
Inspected By (Company):	Control Box S/N:	
Inspector Name(s):	Inspection Date:	

Checklist

	Checklist Item Description	Inspector Check
Lower Inspection	1. Inspect system for visual signs of damage or leaks.	<input type="checkbox"/> Pass <input type="checkbox"/> Repaired
	2. Inspect system for loose or missing hardware (verify torque marks).	<input type="checkbox"/> Pass <input type="checkbox"/> Repaired
	3. Inspect system wiring for loose or damaged cables (control box, car & traction unit).	<input type="checkbox"/> Pass <input type="checkbox"/> Repaired
	4. Inspect the wire rope alignment of the top and bottom pulley, traction unit guide and drive wheels, and the wire pressing device while ensuring smooth rotations.	<input type="checkbox"/> Pass <input type="checkbox"/> Repaired
	5. Confirm the car guide wheels are secure and rotate freely without excess vibration.	<input type="checkbox"/> Pass <input type="checkbox"/> Repaired
	6. Verify the wire rope is free of defects such as broken strands, crush marks, bird caging, kinks, nicks, etc...	<input type="checkbox"/> Pass <input type="checkbox"/> Repaired
	7. Confirm the car rope clamps are properly secured.	<input type="checkbox"/> Pass <input type="checkbox"/> Repaired
	8. Verify that the wire rope tension indicator is in the green zone when the car has no load. There should not be more than 1 inch of float below the bottom pulley wheels.	<input type="checkbox"/> Pass <input type="checkbox"/> Repaired
	9. Verify the compression spring length on the rope pressing device is approximately 25mm ± 2mm .	<input type="checkbox"/> Pass <input type="checkbox"/> Repaired
System Functions	10. Confirm the car emits a “doorbell” sound when the deceleration switch is triggered and alarm when either of the bottom sensing devices are engaged.	<input type="checkbox"/> Pass <input type="checkbox"/> Repaired
	11. Manually test the up and down functions using the recall switch, remote buttons, and manual operation switches. Verify the corresponding indicators activate.	<input type="checkbox"/> Pass <input type="checkbox"/> Repaired
	12. Confirm the manual switches override and stop the car when operating in remote.	<input type="checkbox"/> Pass <input type="checkbox"/> Repaired

Checklist

	Checklist Item Description	Inspector Check
System Functions (cont.)	13. Verify the platform detection switches, bottom sensing devices, and upper and lower limit switches stop the car when engaged.	<input type="checkbox"/> Pass <input type="checkbox"/> Repaired
	14. Verify the E-STOP buttons disable power to the car and control box when depressed.	<input type="checkbox"/> Pass <input type="checkbox"/> Repaired
	15. While the car is stationary, gently pull the emergency manual brake to verify the car fall arrester engages properly.	<input type="checkbox"/> Pass <input type="checkbox"/> Repaired
	16. Verify the “no load” current is less than 4.5 Amps.	<input type="checkbox"/> Pass <input type="checkbox"/> Repaired
	17. Verify that the car does not slip when the max load of 350lbs is applied and that the system alarm sounds when a load exceeds 330lbs.	<input type="checkbox"/> Pass <input type="checkbox"/> Repaired
	18. Verify the photoelectric sensor is secured and operating correctly.	<input type="checkbox"/> Pass <input type="checkbox"/> Repaired
Traveling Inspection	19. While operating the CAS in a full top-down cycle, listen for any abnormal sounds from the car and traction unit.	<input type="checkbox"/> Pass <input type="checkbox"/> Repaired
	20. While operating the CAS, check that the full length of the rail is free of damage and debris. Rail joint gaps must not exceed 5mm .	<input type="checkbox"/> Pass <input type="checkbox"/> Repaired
	21. Inspect the ladder for wire rope interference with any tower surfaces. Also verify the guide pulleys and anti-abrasion rollers are functioning where needed.	<input type="checkbox"/> Pass <input type="checkbox"/> Repaired
	22. Confirm the top limit flag and speed flags are secured in the proper locations.	<input type="checkbox"/> Pass <input type="checkbox"/> Repaired

 Comments & Signatures

The Climb Auto has been inspected in accordance with the most recent revision of the 3S Inspection Manual, and the Inspection Checklist has been completed with all required repairs.

Comments:

Lead Inspector Signature:

Date: