VAN LADDER ANNUAL INSPECTION CHECKLIST

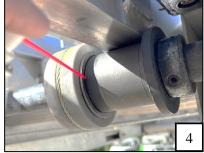
For Model 3931-HDX (S/N 10720 -)

van Ladder Owner	r's Name:	
	· · · · · · · · · · · · · · · · · · ·	
Inspection Date:	Vehicle	Mileage:
∨ = Acceptable	R = Repair or Adjustment Needed	N/A = Not Applicable
Vehicle		
Rear access ladd Inspect vehicle s "Electrocution H Van Ladder Mou "Overall height" Operator's manua Main Power Cab Van Ladder Batte batteries if age ex System Brain bo Master Power/ E Battery Voltage g Remote Control Charging Composhould elevate 1- Vehicle Tires – F Vehicle Battery a	er(s) secure, no damage to structuspension components (springs, lazard" decals – intact and legible ant Structure– Fasteners secure, redecal and slope level indicator pal stored properly in vehicle control – Switch, light, alarm all eries – Load test and check batte exceeds 5 years. (Replace all 3 bax-no evidence of excessive heat, amergency Stop Switch – operating auge – Reads voltage when switches, onents – Use voltage gauge or medal operations work, switches, onents – Use voltage gauge or medal operations work and wiring leads – Load test and	e on all four sides of vehicle no structural damage properly positioned in cab I operating normally ry age. Terminals clean and tight. Replace atteries at same time.) loose or damaged circuitry ng properly
Rotation Ring, Carr	iage, & Lift Arm	
☐ Inspect condition☐ Slip Ring – inspensure connection☐	n of Van Ladder wiring harness the trushes and contact rings for	fasteners secure, track surface clean. hrough roof to slip ring tarnish or indications of excessive heat, ed, inspect center bearing, ensure all
 □ Decals – ensure a □ Axles and Roller □ Rotation Power u motor for excess 	all warning and operational decales – All secure, rolling quietly and unit – fasteners secure, shield in pive dust, moisture, and proper br	d freely, replace rollers if worn to wear band place, no oil leaks, if abnormal noise, inspect ush length (½" or more)
☐ Hydraulic Power tampering, prope☐ Hydraulic hoses	unit – shield in place, no oil leader fluid level, electrical connection on leaks, bulging, deformation,	or weathering
⊥ ⊥ Carriage – No da	amage to welded structure fastene	ers secure

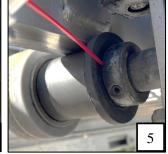
VAN LADDER ANNUAL SERVICE/ INSPECTION CHECKLIST (CONT.)

	Lift Arm – No visible damage to welded structure, limit switches intact, track rollers turning (Lubricate with JB80 or comparable penetrating oil at point between bushings and track rollers. DO NOT lubricate aluminum channel) (fig 1) Stow Cradle – No visible damage to welded structure or alarm switch Hydraulic Lift Cylinder – fasteners and fittings secure, no oil leaks, inspect base end and rod end welds, end pivots and pins			
	Hydraulic Creep Test: Load 300lbs in bucket at full side reach and just above lowest			
	elevation. Creep must not exceed 4 inches/ hour. (or 1 inch in 15 min)			
	Down limit switch – plunger switch near rod end of cylinder is properly functioning to prevent DOWN function after firmly contacting cradle (fig 2)			
Lac	lder Boom			
	Base Ladder – No damage to welded structure, fasteners secure, no sharp edges on handrails, inspect pivot points for excessive wear.			
	Fly Ladder – No damage to welded structure, fasteners secure, no sharp edges on handrails, inspect bucket pivot points for excessive wear, all rollers moving freely			
	Bucket wiring harness and Power track – fasteners tight, no visible damage or excessive wear, properly routed, secured, & protected			
	System Control Box – Ensure connections tight, check for evidence of heat, condition of relays and circuit breakers, exterior plugs and wires			
	Telescopic Limit Switches – fasteners tight, no visible damage, check proper switch operation			
	Decals – ensure all warning and operational decals are intact and legible			
	Telescopic Power unit – fasteners secure, shield in place, no oil leaks, if abnormal noise,			
	inspect motor for dust, moisture, and proper brush length (½" or more)			
	Telescopic Shaft & Drums – fasteners secure, no damage or abnormal cable wrapping			
	Telescopic Cables – Inspect all cables for frays, corrosion (rust), abnormal wear & proper			
	routing Check torque on telescopic cable anchor fasteners and adjust if necessary (Min: 25			
	in/lbs, Max: 35 in/lbs)minimum cable replacement interval: 5 yearssee cables section in			
	manual)			





☐ Telescopic Front Roller components – Inspect fly rollers and cable pulleys for wear, proper adjustment, and lubrication. Lubricate with JB80 or comparable penetrating oil (fig 3-5).



VAN LADDER ANNUAL SERVICE/ INSPECTION CHECKLIST (CONT.)

Ca	ge Bucket
	Cage Bucket weldment: fasteners tight, welded structure sound, no sharp edges on handrails inspect pivot points for excessive wear, mid-rail cables and hooks in good condition Decals – ensure all warning and operational decals are intact and legible Fall Arrest Anchor –good condition and fasteners secure Ensure all electrical wiring is sound and properly routed, secured & protected Linear Actuator – inspect for damage, fasteners secure
	Bucket Control Box – inspect wire condition, connections, drain hole, toggles and seals, damage to box, decals intact and legible, properly operating (check e-stop switch and "ON" switch for bypasses and correct operation) 110V option (if equipped) – test GFCI receptacle and all wiring and components associated with this option
Ac	cessory Items (Inspect if so equipped)
	Note accessory items having been inspected for structural soundness and proper operation, decals are intact and legible, electrical wiring and connections are sound, items operate properly and safely:
Lu	brication
	Ensure all components are properly lubricated as specified in the <i>Lubrication</i> section of the Van Ladder owner's manual Telescopic Cables (Vitallife 400 cable lubricant) Telescopic Front Roller components (JB80 or Synthetic Caliper Grease) Lift arm track rollers (JB80 or Penetrating oil) Lift arm pivot zerks (Multi-purpose grease) Hydraulic cylinder zerks (Multi-purpose grease) Base ladder zerks (Multi-purpose grease)

VAN LADDER ANNUAL SERVICE/ INSPECTION CHECKLIST (CONT.)

Operational Test Procedure

☐ Perform operational testing of the unit as specified below

AWARNING: Always perform operational testing from the Remote Controls **before** operating the Van Ladder from the bucket controls.

A WARNING: <u>ANY</u> indication of improper operation during operational testing should be inspected by trained personnel before use of the aerial device.

Using Remote Control:

- 1. Raise the unit from the stowed position.
- 2. Use UP function until maximum boom angle is achieved. (**NOTE:** <u>Check for abnormal noise or lack of power from hydraulics</u>)
- 3. Use EXTEND function until *Max-T limit switch* activates, deactivating motor and preventing further reach. (**NOTE:** Ensure telescopic motor stops immediately when control switch is released or when limit switch deactivates function. Motor stalling or cable slack may indicate a faulty switch)
- 4. Use RETRACT function until *Min-T limit switch* activates when fully retracted (ensure brake stops motor immediately)
- 5. Use LEFT and RIGHT functions to rotate unit for 1 full revolution both directions. Ensure cog engages properly with the ring holes and doesn't skip, or make abnormal noises. At lower elevations, where the boom could rotate into the stow cradle, limit switches should deactivate rotational movement. Ensure these switches are working.
- **CAUTION:** Whenever positioning the Van Ladder in or near the Stow cradle, ensure the bucket does not contact the vehicle and cause damage.
- 6. Use DOWN function to carefully lower unit into the stow cradle. DOWN function should stop approximately ½" before contacting the cradle.
- 7. On the remote control, flip the "control select" switch to bucket controls and return the remote to its hanger inside the vehicle

Using the Bucket Controls:

- 8. Stepping up on the front platform and using the stow controls, activate the "Boom Down" to firmly stow the boom in the cradle. DOWN should stop automatically.
- **WARNING:** The plunger style limit switch located at the upper end of the lift arm should be inspected daily to ensure it is properly stopping hydraulic down movement when stowing. (see page 14 for more information)
- 9. After entering the bucket and securing fall arrest equipment, raise the boom from the stowed position and ensure proper operation of all directional functions and *Emergency Kill Switch*
- 10. Rotate the boom off to the side of the vehicle and lower it all the way down. Exit the bucket and, using the stow controls, attempt to lower the boom down. The red fault indicator on the side of the System Control Box will illuminate. Press the reset switch on the side of the System Control Box to reset.
- 11. Ensure Cradle rest alarm switch activates buzzer on main power control when vehicle is running, e-brake is released and unit is not stowed.
- 12. Ensure all operational controls and limit switches are operating properly.

VAN LADDER ANNUAL INSPECTION SUMMARY For Model 3931-HDX (S/N 10720 -)

THIS PAGE MUST BE COMPLETED BY AN INDEPENDENT INSPECTOR

Van Ladder Owne		
	ll #Vehicle VIN:	
	Vehicle Mileage:	
Inspection	PASSED / FAILED (circle one)	
Summary of Findir	ings:	
(Note items needing	g corrective action, and how resolved.)	
_		_
_		
Inspector's Signat	ture	
Inspector's Name	(printed)	
Company Name:_		
Address:		
State/ ZIP:	Phone:	