

# SELF PROPELLED AERIAL WORK PLATFORMS 1201

## I. Understanding Aerial Work Platforms

### A) Specifications

1. Gross vehicle weight of unit, effect on terrain
2. Lift capacity, work envelope, reach, drive system, power systems
3. Gradeability and what it means
4. Built to meet or exceed ANSI (Amer. Nat. Safety Inst.) specifications

### A) Intended Use

1. Self propelled elevated work platform
2. Personnel lift not a material handler
3. NOT INSULATED, use extreme caution around energized power lines
4. Units are to be operated on firm flat level surfaces only

## II. Physical Inspection of Environment

1. Overhead obstacles, power lines, electrical fixtures beams etc.
2. Ground surface to be firm and level, free of holes, ditches, drop-offs, etc.
3. Be alert to obstacles and other physical hazards. Keep clear of any ground surface hazards.
4. On windy days – Do not operate when winds reach 25 mph

## III. Inspection of Aerial Work Platform

1. Inspect tires for excessive wear or damage, check for proper air pressure, check lug nuts.
2. Check all fluid levels: fuel, hydraulic, engine oil and coolant, battery, etc.
3. Check battery condition and electrical connections.
4. Check all pins, panels and fasteners for proper installation and security.
5. Check for structural damage or cracked welds.
6. Check rotation ring gear bolts for tightness and that lock tabs are in place.
7. Check for frayed, damaged or leaking hydraulic hoses.
8. Check entrance gate for proper operation.
9. Check safety foot switch.
10. Check that all switches return to center position as well as controllers.
11. Check slope sensor

12. Check all limit switches.
13. Check all safety decals and placards.
14. Check for fluid leaks.
15. Check steering operation.
16. Check operation of upper and lower controls.
17. Check operation of emergency functions and emergency stop controls.

Note: Be mindful of any unusual noises, vibrations or unusual function response.

Any defects found shall be corrected before use or the unit shall be tagged OUT OF SERVICE DO NOT OPERATE.

#### **IV. Personal Safety Equipment**

- A. Body Harness and Lanyard. Required at this time only, for boom lift operation. Must meet proper specifications and must be in good condition.
- B. Other Equip. - Hardhat, footwear, etc. required by local, state or federal laws.

#### **V. Equipment Familiarization**

- A. Manuals – Read and understand the Operational and Safety Manual.
- B. Operation – Know how to operate the specific unit from both platform and ground controls.
- C. Emergency Functions – Know how to operate Emergency Functions from both platform and ground controls.
- D. Shut Down – Know how to shut down unit in an emergency situation.
- E. Personnel – Know weight of material and personnel involved. Do not exceed platform capacity.
- F. Operation – Avoid jerky movements. Always watch where you are going. Always make sure there is sufficient clearance and that no obstructions exist. Where applicable, watch your tail swing when rotating turret.
- G. Type of Aerial Work Platform – There are no obvious differences in operating boom lifts and vertical lifts. The operator must be aware of the model and type of lift and vertical lifts. The operator must be aware of the model and type of lift he is using and become totally familiar with its operation.

## **VI. Constant Evaluation/Inspection**

Maintain proper service and inspection intervals for specific unit. Report any damage, unusual operation, excessive noise, sway or motion immediately. Do not operate a unit exhibiting any problem until it has been inspected or repaired by a qualified service technician. No modification is to be made to any Aerial unit without the prior written consent from the manufacturer.

## **VII. Safe Clearance – Electrical**

Maintain safe clearances. Self-propelled Aerial Platforms are NOT INSULATED; you must maintain a minimum 10-foot distance between any part of the work platform or load and any energized electrical line carrying up to 50,000 volts. A one-foot additional clearance is required for every additional 30,000 volts or less. Better yet, get the power shut off!

These clearances must allow for boom sway, rock or sag, as well as electrical line and load swaying.

Never touch any part of a machine that has come in contact with an energized electrical part. Have the circuit shut off before rescue procedures are attempted.

## **VIII. Responsibility**

The final responsibility for safe operation of an Aerial Platform lies in the hands of the OPERATOR. Consult the Operation and Safety Manual for the specific unit to be used if there are any questions. Remember the Factory is only a phone call away to assist you in any manner possible.

**A TRAINED OPERATOR, WHO IS CAREFUL, IS THE BEST SAFETY DEVICE AVAILABLE.**

## PHYSICAL INSPECTION CHECK LIST

### 1. OVERALL MACHINE CONDITION

- A. Ground controls/platform controls – Controls return to neutral (center) when actuated.
- B. Hydraulic leaks.
- C. Electrical system for frayed or broken wires or loose connections.
- D. Missing, broken, or damaged parts, pin retainers, bolts and nuts.
- E. External structural damage, or cracked welds.
- F. Condition of tires – pits, tears, cracks or cuts.
- G. Steering connections, tie rod, cylinder.
- H. Wheel lug nuts – missing or loose.
- I. Decals, placards, warning signs.
- J. Proper tire pressure, when applicable.
- K. Boom – pivot, pin areas, wear pads, cylinder.
- L. Check bolts securing ring gear to chassis and turret for tightness and that all lock tabs are in place.
- M. Inspect boom cables for fraying or damage and tightness and proper installation on sheave (3-section boom units).

2. **PLATFORM**

- B. Pivot points, connections.
- C. Structural condition – damaged railing, flooring.
- D. Control box – electrical wiring for frayed or broken wires, damaged components, hoses, loose connections.
- E. Access openings, slide bar freely moves, gate works properly.

3. **BATTERIES**

- F. Electrolyte level – all caps present.
- G. Cables and connections – ground connection.
- H. Battery holddown.

4. **ENGINE**

- A. Fuel level
- B. Oil level
- C. Mounting
- D. Check for fuel, oil leaks.

5. **HYDRAULIC SYSTEM**

- A. Hydraulic leaks
- B. Loose or damaged hoses, tubing
- C. Fluid level, hydraulic tank breather cap. Refill only with Approved Hydraulic oil. (Refer to Manual)
- D. Hydraulic Valves and control levers.
- E. Cleanliness of hydraulic fluid – non-milky, bright in color.

6. **MULTI-AXIS 5° SLOPE SENSOR**

- A. General condition
- B. Loose or damaged wired
- C. Push to test. Moveable on mounting
- D. Warning light/alarm in platform is operable