



ANNUAL INSPECTION REPORT

Prepared By Kerry Lewis Serial Number 10026 Model UB50 Customer unit # G8538
Customer MISSOURI DOT Date January 3, 2017

City Jefferson City State/Province Missouri Zip Code 65102

Inservice Date December 15, 1997 ☒ First Rebuild Completed Date December 15, 2007
☐ Second Rebuild Completed Date
Rebuild is due on: Date December 15, 2017

PTO HOURS 3,155 CHASSIS HOURS 15,963
AUX ENG. HOURS 111.9 CHASSIS MILES 180,842

TEST AND REPORT LIMITATIONS

This report is provided to you with the understanding that ASPEN AERIALS, INC.'s responsibility is solely to conduct the inspection and assist you with the interpretation of the results. The decisions you make thereafter, concerning the equipment, are your responsibility. Aspen Aerials is not responsible for decisions you make or their consequences.

WARNING

This inspection determines the state of the equipment only at the time the inspection was performed! Any overloads, accidents or abuse of this equipment, after the test, could result in the inspection performed, no longer being valid. Structural damage may have occurred even though the equipment visually may appear intact and usable after said overloads accidents or abuse. Furthermore, materials experience a normal aging process whether abuse occurs or not. Therefore, the unit must be inspected before each use, to insure its structural integrity.

Description of codes used in this report	Defect Code
Immediate action is required - Take unit out of service	<u>1 CRITICAL</u>
Repair as soon as possible, it may become critical	2
Repair soon, next time the unit is in for maintenance	3
No repair needed. Area should be watched for further degradation	4
Review Notes prior to using unit	5
Item Inspected and no work is required	OK
Not Applicable	NA

WELDING NOTE

Aspen Aerials requires that all structural welding on this unit, be performed to AWS D1.1 steel and D1.2 aluminum standards. Contact the Service Department at Aspen Aerials for welding instructions, prior to any welding being performed.

MANUALS AND DECALS

- ☒ ANSI/SIA Manual of Responsibilities in the manual storage box
- ☒ Operators & Service manual with truck
- ☒ Capacity decals in place, secure & legible, at all control stations
- ☒ All safety & instructional decals installed, secure and legible.

Defect Code #5

Notes:

049077 Decal on front bumper needs to be replaced.

TRUCK CAB AND UNIT POWER PANEL

- ☒ Chassis instrument panel checked
- ☒ Unit power, switch panel checked and operational
 - ☒ 2 - Speed
 - ☒ Tag/Pusher Axle function
 - ☒ Tag/Pusher Axle pressure
- ☒ Windshield
- ☒ Lights

Defect Code #3

Notes:

Axle lock engage lamp is out.
PTO lamp on wired rite is out.

ELECTRICAL WIRES AND HYDRAULIC HOSES

Wires Hoses

- ☒ Secured , ties and clamps checked
- ☒ Pivot points and access holes checked
- ☒ Checked for wear and rubbing
- ☒ Wrap and protective covering in place
- ☒ Din Connectors
- ☒ 12Volt
- ☒ 120Volt

Defect Code #3

Notes:

Front axle locks have minor leaks on both sides.
A1 hose off HPI vale has a crimp leak

LIMIT SYSTEM

- ☒ Test all switches for proper functioning
- ☒ Mounting
- ☒ T-2 plate, switch contact
- ☒ Axle Lock Interlock
- ☒ Limit switch function panel checked
- ☒ LED Lights

Type L.E.D Box with Lights

Defect Code #3

Notes:

70 degree Mercury switch leaking. Bulb tip is cracked.
Sending replacement.

HYDRAULIC CYLINDERS

- ☒ Check for leaks or damage
- ☒ Visually Inspect Welds
- ☒ Fittings
- ☒ Holding Valves
- ☒ Pins
- ☒ Check for Rust/Corrosion
- ☒ Check that updates are installed

Defect Code OK

Notes:

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INTERCOM SYSTEM

Test ☒ Cab station ☒ Platform station
☒ T1 station ☒ Check headset at each station
Number of headset stations three
☒ Wires
☒ Fasteners

Defect Code OK

Notes:

CONTROL SYSTEM

☒ All joysticks/push button controls return to neutral when released
☒ Check condition of control enclosures and protective boots
☒ Check control enable system ☒ Fast Slow function
☒ Foot Switch, if equipped ☒ Control Adjustment function
☒ Cable Connections ☒ Platform Controller
☒ Control Set Installation ☒ Ground Controller

Defect Code #3

Notes:

Fast slow selector not working on the walk around box.

Is unit equipped with a Plus-One system? No

Was a program revision installed during this inspection? No

Type of Controls MRC-10X

Program Rev.

Ground Control #

Platform Control #

CHASSIS, SUBFRAME, PEDESTAL, DECK, BODY

☒ Visually Inspect Welds ☒ Engine Area
☒ Suspension ☒ Mud Flaps
☒ Frame Clips ☒ Lights
☒ Mounting Bolts ☒ Tag/Pusher Axle Components
☒ Body boxes ☒ Check subframe condition

☒ Tires

Defect Code #3

Notes:

Compressor has a minor gasket leak
Oil pan sensor connector needs to be repaired
Pack rust developing on sub frame and tag axle area.
Multiple minor leaks on engine and tranny.
Tire pressure low.
Passenger side tag axle shock is broken.
Front springs are flat.
Odometer and tach are not working properly

AUXILIARY ENGINE, COMPRESSOR, GENERATOR

☒ Battery connections checked
☒ Hoses/Wires ☒ Engine Oil
☒ Mounting ☒ Coolant
☒ GFI Outlets ☒ Belts
☒ Load Center ☒ Exhaust
☒ AC Electrical System

Defect Code OK

Notes:

Compressor making air but both regulators are leaking. The blow off on the bottom of the tank is leaking by.

Air Filter Part # Non Stock

Oil Filter Part # Non Stock

Fuel Filter Part # Non Stock

Generator output 115 vac at 60 Hz

Air compressor loads 90 psi

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HYDRAULIC SYSTEM

- ☒ Hydraulic fluid level
- ☒ Tank condition, gauges, filters, cap
- ☒ Check hydraulic pressures and ensure proper adjustment
- ☒ PTO and Pump operation ☒ Truck ☒ Auxiliary engine
- ☒ Port reliefs
- ☒ Perform holding valve test
- ☒ Emergency Override System
- ☒ Axle Lock / Unit Selector
- ☒ Mounting of Components
- ☒ Dump Valve Blocks

Defect Code #3

Notes:

Main line off pump and leveling section have crimp leaks.

Return Filter Part # 064079

Pressure Filter Part # 063339

Leveling Filter Part # N/A

AXLE LOCK AND COUNTERWEIGHT SYSTEMS

- | Front
Locks | Rear
Locks |
|-------------------------------------|--|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> Visually Inspect Welds |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> Operation, in/out, contact with switches |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> Wires and hoses routing checked |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> Check clearances |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> Lubrication |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> Cylinders |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> Fasteners |

Rear Sliding counterweight installed? Yes

Defect Code #3

Notes:

Drivers side front axle, the C22 hose has a crimp leak and line should be replaced.
Adjusted both sides and tightened
Both rear cylinders have seal leaks.

- ☒ Operation, in/out, contact with switches
- ☒ Diverter valve and springs checked
- ☒ Drive System

TURNTABLES #1 AND #2

- | | |
|---|---|
| <input checked="" type="checkbox"/> Turntable bolts inspected and torque tested | <input checked="" type="checkbox"/> T1 <input checked="" type="checkbox"/> T2 |
| <input checked="" type="checkbox"/> Check operation | <input checked="" type="checkbox"/> T1 <input checked="" type="checkbox"/> T2 |
| | <input checked="" type="checkbox"/> Visually inspect bearings |
| <input checked="" type="checkbox"/> Gear Box Mounting | <input checked="" type="checkbox"/> Gear Box Operation |
| <input checked="" type="checkbox"/> Pins | |
| <input checked="" type="checkbox"/> Bushings | <input checked="" type="checkbox"/> Leveling Arms, if equipped |
| <input checked="" type="checkbox"/> Lubrication | <input checked="" type="checkbox"/> Leveling Arm Pin , if equipped |
| <input checked="" type="checkbox"/> Guards | <input type="checkbox"/> T2 leveling Cylinder , if equipped |

Defect Code OK

Notes:

Are brakes installed? No Brake torque value T-1 ft/lbs
Brake torque value T-2 ft/lbs

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BOOMS

- ☒ Visually inspect welds
- ☒ Visually inspect all cylinder connections

- | | |
|---|--|
| <input checked="" type="checkbox"/> Pins | <input checked="" type="checkbox"/> Rollers |
| <input checked="" type="checkbox"/> Bushings | <input checked="" type="checkbox"/> Wearpads |
| <input checked="" type="checkbox"/> Lubrication | <input checked="" type="checkbox"/> Tie Down Strap |
| <input checked="" type="checkbox"/> Guards | <input checked="" type="checkbox"/> Boom Rest |

- ☒ Linkarms/Pivots

Boom Wear Pad Measurements (A-52)

N/A

Defect Code

Notes:

PLATFORM or WALKWAY

- | | |
|---|--|
| <input checked="" type="checkbox"/> Check mounting installation | <input checked="" type="checkbox"/> Platform Rests |
| <input checked="" type="checkbox"/> Visually inspect welds and construction | <input checked="" type="checkbox"/> Slide Condition |
| <input checked="" type="checkbox"/> Access door latches working properly | <input checked="" type="checkbox"/> Wear Pads |
| <input checked="" type="checkbox"/> Check for loose and missing parts | <input checked="" type="checkbox"/> Tie off Connection |
| <input checked="" type="checkbox"/> Safety lanyard connections | <input type="checkbox"/> Ladder (if installed) |

Defect Code

Notes:

Shined the platform leveling relief valve to achieve proper pressure. Relief is 3300 PSI

- ☒ Heater operation

- ☒ 12V light receptacles

- ☒ 120v/220v Electrical Outlets

TILT ALARM / ENGINE KILL SYSTEMSTest engine kill system ☒ T1 ☒ Platform ☒ CabOther Locations

- ☒ Test stepping relays

- ☒ Test tilt alarm horn operation

- ☒ Check mounting installation

Defect Code

Notes:

OTHER

Unauthorized Modifications or Additions

- ☒ Paint and overall appearance
- ☒ Applicable safety bulletins completed
- ☒ Greasing and lubricating

- ☒ Decals

Is hy-rail gear installed on this unit?

☐ Hy-rail operation☐ Hy-rail visual inspectionDefect Code

Notes:

Any changes in personnel or ownership? Customer Comments? Other notes.

Serial Number

MAINTENANCE RECOMMENDATIONS

1. Protect the exposed cylinder rods by applying a light coating of oil at least once a week.
2. When necessary, adjust all hydraulic hoses and electrical wires through the booms and pivot points.
3. Maintain the proper tire pressure, as recommended by the tire manufacturer.
4. Lubricate the unit as recommended in the service manual. Remove excessive grease.
5. Lubricate the T-1 and T-2 rotation gear teeth with open gear compound when gear teeth become dry.
6. Replace all hydraulic filters annually.
7. Test oil yearly. Change at least every 5 years
8. Remove rust that develops on components and repaint, as necessary.
9. The pin connections and boom pivot points must be kept clean and free of excessive grease and debris to allow for proper pre-operation and frequent inspections.
10. Clean and lubricate the axle lock assemblies, as required.
11. Clean and lubricate the sliding counterweight components at regular intervals (if installed).
12. The ball screw device on the sliding counterweight must be lubricated every 80 hours of operation. Use white lithium grease.
13. Lubricate the hydraulic diverter valves, at the rear sliding counterweight, weekly. Use silicone.
14. Clean the switches and buttons with electrical contact cleaner, monthly.
15. Clean dump valve cartridges, as necessary, to prevent corrosion. Apply dielectric grease for protection.
16. Each day, before the unit is operated, perform a pre-operation inspection.
17. Perform frequent inspections every 3 months or 200 hours, whichever occurs first.
18. Perform all service procedures, as outlined in the manufacturers parts and service manual.