

TIER 1 ANNUAL AERIAL INSPECTION

OVER 160 TECHNICAL CHECK & INSPECTIONS

Visual Inspection

- Walk Around Visual Inspection
- Chassis & Under Carriage
- Check Pump Operations
- Pump Shifting, Primer, Pressure Control Device, Valves, Instruments
- Check "Basic" Aerial Operation
- Check Aerial Components
- Check Aerial Hydraulics
- Check Monitor & Waterway
- Electrical Check
- Cab & Body Lighting
- Cab & Pump Instruments
- Water Tank Check
- Body & Compartment Check
- Safety & Equipment Check

Engine

- Check Engine Mounts
- Check Pulleys & Tighten Belts

Cooling

- Check Hoses & Clamps
- Check for Fluid Leaks

Frame

- Frame Rail Visual Inspection
- Cross Member Visual Inspection

Cab Interior

- Cab Seats & Seat Belts
- Instruments & Tachometer
- Air & Electric Horns
- Heater/Defroster/A-C

Cab Exterior

- Glass, Windows & Wiper Blades
- Cab Doors & Latches
- Mirrors & Controls
- Cab Tilting System

Axles

- Wheel Bearings Check
- King Pins Check

Steering

- Visual Check Power Steering

Brakes

- Check Lines for Wear & Leaks

Tires

- Check Tire Tread Depth
- Check & Fill Air Pressure

Fluid Levels • Check & Refill

- Engine Oil Level & Leaks
- Transmission Fluid
- Power Steering Fluid
- Rear Axle Oil
- Pump Gear Box Oil
- Windshield Wiper Fluid

- Coolant & Battery Fluid Levels
- Pump Primer Oil tank Level
- Cab Tilt Hydraulic System
- Lube Universal U-Joints
- Lube All Points on Chassis
- Check for Leaks
- Brake Fluid-Check & Refill

Drivelines

- Check Bolts on all U-Joints/Yokes
- Drive Line Carrier Bearing

Under Carriage

- Check for Corrosion & Cleanliness

Cab Electrical

- Battery Condition & Mountings
- Starter & Master Switch Check
- Cables & Terminals
- Headlights & High Beams
- Rear Stop/Tail/Turn Signal
- Marker & ICC Lights
- Front Turn-signals
- Cab Dome & Step Lights
- Cab Warning Lights
- Siren & Speaker
- Compartment 'Door Open' Light
- Cab Instruments & Tachometer

Body Electrical

- Step & Ground Lights
- Body Warning Lights & Air Horns
- Back-Up Lights & Alarm
- Compartment Lights
- Flood & Scene Lights
- Pump Panel Lights
- Hose Bed & Crosslay Bed Lighting
- Check Aerial Electrical Equipment

Body

- Compartment Doors & Hinges
- Compartment Door Latches
- Body & Paint Condition
- Rust or Corrosion Damage
- Check for Accident Damage
- Check Equipment Mounting
- Hose Cover & Ladder Mountings

Generator (if applicable)

- Check Fluid Levels
- Start & Operate Generator
- Check Generator Instruments
- Operate All Flood Lights

Aerial Hydraulics

- Hydraulic Elevation Cylinders
- Hydraulic Extension Cylinders
- Elevation Hydraulic Hose Lines & Piping
- Hydraulic Tip Controls
- Perform & Check Aerial Operations

- Inspect All Cables & Pulleys

Water & Foam Tank

- Visually Inspect Water/Foam Tanks
- Overflow, Fill & Vent Tower
- Drain Valves & Tank Level Indicators

Stabilizers

- Hydraulic System Stabilizers
- Stabilizer Hyd Cylinders
- Hyd Control Valves & Operation
- Inspect Hyd Hose Lines & Piping
- Diverter Valve & Controls
- Mountings & Bolts, Frame or Torque Box
- Paint or Corrosion: Check
- Reflective Tape On Stabilizers
- Stabilizer Pads Condition & Mntgs
- Stabilizer Pads Movement
- Safety Pin Provisions & Stage
- Overall Stabilizer Condition
- Check Stabilizer Interlocks

Hydraulics

- Hydraulic Tank & Mountings
- Test — Hydraulic Oil Condition
- Inspect for Hydraulic Oil Leaks
- Inspect Hydraulic Lines & Piping
- PTO & Hydraulic Pump Operation

Aerial Structure

- Aerial Handrails
- Check All Rung Covers
- Inspection Slide Wear Pads
- Turntable Mounting Bolts
- Check Ladder for Cracks & Damage

Safety

- Reflective & Rear Chevron Stripping
- Hose Bed Covers
- Traffic Cones & Vests

Emergency Hydraulic Pump

- Operate 12V Hydraulic Pump
- Check Emergency Override Controls
- Check Hydraulic Hoses
- Check Electrical Wiring

Turntable

- Rotation Gear & Reduction Box
- Rotation Hydraulic Swivel
- Turntable Hyd Hose Lines & Piping
- Communications Systems

Turntable & Aerial Electrical

- Emergency 12V Power Controls
- Electrical Wiring & Panels
- Non-slip Working Surfaces
- Interlocks & Controls
- Control Panel Lights
- Turntable Step Lighting

- Spotlights — Base & Tip
- Rung Lighting System
- Warning Lights on Stabilizers
- Stabilizer Ground Lighting
- Inspection Aero-Track

Pump

- Pump Quick Check (Non-Draft)
- Pump Shift, Lock-Up, OK Lights
- Primer Test & Vacuum Test
- Lube Grease Pump Fittings
- Tank to Pump — Controls
- Pump to Tank Fill Control
- Pump Packing or Seal Check
- Pressure Relief Valve Check/Lube
- Pressure Governor Check
- Operate & Lube Discharge Valves
- Operate & Lube Intake Valves
- Check All Pump Instruments
- Check Heat Exchanger
- Check Pump Counter (If Provided)
- Check Pump Intake/Discharge Gauges
- Check Hose Reel
- Check Pump Plumbing, Flex-Hose, Fittings
- Check Pump Drain Valves

Waterway

- Inspection & Scoring
- Waterway Piping at Turntable Area
- Waterway to Monitor Piping: Check for Leaks
- Waterway Drains
- Check 'Pined' Waterway Provisions
- Exterior Waterway Intake Valve

Aerial Safety

- Safety Signs, Labels, Placards
- Grab Handles & Steps
- Tip Painting and/or Reflective Tape
- Access Ladder to Turntable
- Check Condition of Safety Belts

Monitor

- Monitor Operations
- Check 'Remote' Monitor Controls
- Monitor Valve Control - Base & Tip
- Nozzle Operations
- Hose Line Connections & Valves

Control Panel Indicators

- Rung Alignment Indicator
- PTO Engagement Lights
- Aerial Alignment
- Turntable Alignment
- Elevation & Extension
- Turntable Level
- Control Panel Condition

Please contact Robert Dunbar, Annual Truck Services Representative for more information · 251-929-9532 · rdunbar@sunbeltfire.com



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TIER 2 PUMPER INSPECTION

OVER 210 TECHNICAL CHECK & INSPECTIONS

NFPA 1911 Annex C Figure C.3(b) - Includes all of the inspections and checks in the Tier 1 Aerial Inspection Package, plus:

Cooling

- Radiators & Intercooler
- Fan & Clutch - Visual Inspection
- Fan Shroud & Clearances
- Check Radiator

Fuel System

- Check Fuel Line & Leaks
- Fuel Tank & Mounting

Body

- Adjustments & Checks

Axles

- Wheel Bearings Check
- King Pins Check

Engine

- Check Hoses & Oil Leaks
- Alternator Mounting & Terminals
- Adjust & Tighten Belts
- Test Alternator Output

- Throttle Linkage Adjustment
- Test Fan Clutch
- Test Coolant & Degrees
- Check Air Filter Condition

Transmission

- Check Mounts
- Check Hydraulic Hoses
- Check Transmission Cooler
- Check Shift Controls

Air Intake/Filter

- Air Intake Piping
- Air Filter Gauge Check

Under Carriage

- Check for Under Body Corrosion & Paint
- Check Body & Cab Mountings
- Check Wiring, Air Lines, Etc.

Exhaust System

- Turbo Charger—Check Area

- Exhaust Pipes & Clearances
- Muffler & Outlet
- DPF & Emissions Equipment

Fluid Levels & Lubrication: Check & Refill

- Pump Transfer Case Oil
- Check for Leaks of any type
- Visually Inspect Power Steering

Steering

- Check Linkage & Tie Rods
- Power Steering Box
- Power Steering Pump & Hoses

Driveline, Wheels & Brakes

- Driveline Carrier Bearings
- Check Wheel Lugs for Tightness
- Check Brake Pad/Disc Condition
- Air Pressure & Build-up Time
- Parking Brake Operation

Electrical

- Check +/- Battery Cables
- Check Starting cables
- Test Condition of Batteries
- Cab Tilt Electrical Test
- Electric Panel Checks
- Siren, Primer, Reel Solenoids
- Amp & Voltmeter Test
- Electrical System (7) Checks
- Ladder/Equipment Rack Operation

Pump

- RPM Counter Check
- Check Heat Exchanger & Lines

Aerial

- Torque Box Mounting Bolts
- Torque Turntable Bolts

Road & Condition Test

OPTIONAL AERIAL INSPECTIONS & TESTING

Elevated Platforms

- Hydraulic Control Valves: Base & Platform
- Leveling Cylinder
- Hydraulic Hose Lines & Piping
- 12V Floodlights
- Platform Swing Gates
- Platform Floor, Handrails, & Structure
- Platform Hydraulic Control Panel
- Under Platform Water Spray
- Insulation Curtains
- Equipment Mounting in Platform
- Safety Belts

Aerial Road Tests

- Drive Unit 10 Miles Loaded
- Brake Operations
- Secondary Braking Devices
- Parking Brake
- Instrument Readings
- Tire & Drive Line Vibration
- Alignment & Steering
- Cooling & Fan Clutch
- Weigh Vehicle

Breathing Air System

- Check DOT Air Cylinders
- Air Hose & Piping to Tip
- Check Air Outlet and Controls at Tip Location
- Pressure Gauge Operation
- Pressure Regulator Operation
- Air Sample at Tip: 3rd Party

Tractor Drawn Aerials

- Trailer to Chassis 5th Wheel
- Air Brakes Lines & Connections
- Tilter Cab, Doors, Glass, Seat
- Tilter Steering & Controls
- Hyd. Lines from Chassis to Trailer
- Hyd. Turntable & Controls
- Rotation Gear Box & Mounting
- Aerial & Cradle Support Assembly
- Cab to Tiller Communications
- Electrical: Cab to Tiller

Water Towers

- Hydraulic Lifting Cylinders
- Hydraulic Control Valves, Hose Lines & Piping
- Escape Ladder

Foam System Testing

- Operation & Calibration
- Foam Flow: 5 minute/1 Line
- Flush System
- Re-Fill Foam Tank

Aerial Lubrication

- Sheaves & Extension Cables
- Base Rails: Ladder Section
- Ladder Heel Pin
- Rotational Gear & Bearing
- Rotational Gear Reduction Box
- Elevation Cylinder Pins
- Extension Cylinder Pins
- Aerial Waterway Pipe Sections
- Turntable Gear Box: Gear Oil

Line Voltage Testing

- Generator Run - 30 Minutes Under Full Load
- Test all Outlets
- Instruments & Floodlight Operation
- Electric Cable Reel Operation
- Check Generator Engine
- Check Hydraulic Installation

Braking System

- Third Party Brake Inspection
- Check Pads & Drums (2 or 3 Axle)
- Air Compressor
- Brake Performance Testing
- Slack Adjusters
- Parking Brake: All Axles
- Brake Adjustment
- Check Air Dryer
- Air Reservoirs & Drains
- Check General Brake System

Other

- Replace Hyd. Filters & Strainers
- Clean Magnetic Strainer
- Lubricate Stabilizers
- Clean & Lube Slide Pads
- Clean Base Gears

NFPA Fire Pump Testing

- NFPA #1911 Pump Test
- Pressure Governor Test
- Relief Valve Test
- Primer & Vacuum Test

Our Commitment to Service

Annual Inspections and Preventive Maintenance of your fire apparatus can find potential problems and head them off before they develop into a major issue. We focus on saving you money for costly repairs and unwanted "Out-Of-Service" time!

NFPA #1911 Requirements

NFPA 1911 – 4.3.1.1

Any person performing diagnostic checks, inspections, testing, or maintenance of the fire apparatus shall meet the qualifications of NFPA 1071, Standard for Emergency Vehicle Technician Professional Qualifications, or the equivalent.

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