

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

For more information, please contact

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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.

For more information, please contact

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