Burtonsville VFD
TRUCK 715

2016 Pierce Arrow XT
105’ Heavy Duty Aerial
2-16-6387
Outline

Purpose: Incumbent driver quick reference guide.

• Specifications and Fluids
• Cab layout and Fluids Access Point
• Emissions Maintenance
• DEF REGEN Information
• Aerial Operations and Aerial Device
• Generator and Lighting
• Ground Ladder Complement
• Traction Controls
# Vehicle Specs

<table>
<thead>
<tr>
<th>Truck 715</th>
<th>2016 Pierce Arrow XT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>40 ft. 3 in.</td>
</tr>
<tr>
<td>Width</td>
<td>8 ft.</td>
</tr>
<tr>
<td>Height</td>
<td>11 ft. 8 in.</td>
</tr>
<tr>
<td>Wheelbase</td>
<td>205.5 in.</td>
</tr>
<tr>
<td>GVWR</td>
<td>67,500 lbs.</td>
</tr>
</tbody>
</table>
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<thead>
<tr>
<th>Truck 715</th>
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<tbody>
<tr>
<td>Engine</td>
<td>Detroit DD13</td>
</tr>
<tr>
<td>Horsepower</td>
<td>500 HP at 1800 rpm</td>
</tr>
<tr>
<td>Governed Speed</td>
<td>68 mph</td>
</tr>
<tr>
<td>Torque</td>
<td>1650 lb-ft at 1200 rpm</td>
</tr>
<tr>
<td>Transmission</td>
<td>Allison Automatic EVS4000P</td>
</tr>
<tr>
<td>Truck 715</td>
<td>2016 Pierce Arrow XT</td>
</tr>
<tr>
<td>-------------------</td>
<td>---------------------------</td>
</tr>
<tr>
<td>Oil</td>
<td>42 Quarts 15W40</td>
</tr>
<tr>
<td>Transmission</td>
<td>39 Quarts TranSynd</td>
</tr>
<tr>
<td>Coolant</td>
<td>55 Quarts</td>
</tr>
<tr>
<td>Power Steering</td>
<td>4 Quarts ATF</td>
</tr>
<tr>
<td>Diesel</td>
<td>50 Gal</td>
</tr>
<tr>
<td>DEF</td>
<td>4.5 Gal</td>
</tr>
</tbody>
</table>
Cab Layout

Driver

Axe

Officer

Entry

Flip Down Seats

Vent

Roof
Cab Tilt Controls
Cab Tilt Support Arm
Fluids Access

Fluid Check access from Crew Cab
Center of Cab Front

- Powercall electric siren control.
- Power window controls.
- Montgomery County Mobile
- Prince George’s County Mobile
- A/C and Heat controls
- Additional Maxi brake for OIC access (FOR USE ONLY IN EMERGENCIES)
Traction

- ABS equipped
- Differential Lock
- Off Road traction switch
- Inter-axle Differential lock
Emissions Maintenance

DIESEL PARTICULATE FILTER (DPF) LAMP

- The DPF Lamp indicates, when illuminated or flashing, that the DPF requires regeneration. This is accomplished by the following:
  - If the vehicle is equipped with Regeneration Inhibit Switch, ensure that the switch is not in the inhibit position.
  - Perform a Regeneration by either 20 minutes of significant duty cycle (20 minutes of highway driver or perform a parked regeneration.
Emissions Continued

- If a regeneration is not completed in a timely manner the DPF light will begin to flash.
  - Engine power will be reduced.

- A parked regen should be completed when possible (this will take approx. 20 min.)

- The unit should be placed OOS mechanical during this time, and position at least 6 feet from any objects.
Emissions Continued

- DPF Lamp Flashing with Audible Alarm or Check Engine Light
- Engine Power automatically reduced.
- A parked regen must be completed immediately.
DEF Regen Inhibit

- Purpose: Temporarily prevent or disable regen
- Excessive use will result in more frequently required regeneration.
- Only for emergency scenarios
Parked REGEN

- Position 6 feet from any objects. The unit must be outside, in Neutral with the parking brake engaged.
- Clear exhaust surfaces
- DO NOT engage high idle or PTO’s
- This will take 20-30 minutes.
- Press DEF REGEN switch to begin.
- UNIT MUST BE PLACED OOS MECHANICAL BEFOREHAND
Aerial Operations

- Position apparatus appropriately.
- Place vehicle in Neutral.
- Set parking brake.
- Set front wheel lock.
- Press Aerial Master switch.
- Turn on Aerial PTO
Aerial Operations

- Place jack plates as appropriate.
- Extend and lower all jacks, ensuring 4 green lights at each control set.
Aerial Operations

- Interlock Switch
- Engage foot pedal at pedestal.
- Raise and operate aerial device.
Aerial Device

- 4 Section ladder
- 500 lb. Tip Load
- Pinnable waterway
- 14 ft. roof ladder in storage box
Aerial Overrides

Compartment below rear ladder bed.
Aerial Overrides

- Utilize override rod to operate valves.
Aerial Emergency Pump

- Capable of running for 30 minutes if needed.
- Battery and ignition switches must be engaged.
- Switches located at each jack, in rear override compartment, and on turn table.
Pedestal Controls

- Aerial Controls
- High idle switch
- Tip/Tracking lights
- Indicator alarm and test
- Air horn
- Emergency power
- Stabilizers not fully extended light
- Run alignment light
Generator

- Harrison 6KW Generator
- PTO driven
- Must be started via Gen PTO switch in cab
- RPM’s should be at or near idle.
Scene Lighting

- All floods lights run on 12V power.
- Can be turned on at any speed with or without generator engaged.
Ground Ladders

Rear Compartment
- 1-45 ft. bangor
- 2-35 ft. extension
- 2-18 ft. roof
- 1-10 ft. folding

Officer’s Side
- 2-28 ft. extension

Driver’s Side
- 1- Little Giant folding ladder