

City of Bend
Fire & Rescue

Section 1 - Individual Performance Standards

**Section 2.1 Aerial
Operations**

Task 2.1.2 Aerial Set-up on Grade

STANDARD:

Engineer and firefighter will set up aerial ladder given spotting instructions and incident priorities

RESOURCES:

Aerial apparatus, Aerial apparatus manual

PROCEDURE:

1. Engineer spots apparatus with help of crew.
2. Set brakes
3. Transmission in neutral
4. Engage ladder power switch
5. Engage PTO
6. Engineer exits cab
7. Engineer reviews left side for hazards, clearances and obstructions, overhead and on the ground.
8. Firefighter reviews right side
9. Engineer set wheel chocks left side as necessary for grade
10. Firefighter sets wheel chocks right side
 - Level: front and behind front steering axle
 - Cab uphill: behind front axle and rear drive axle
 - Cab downhill: in front of front steering axle and rear drive axle
11. Engineer activates fast idle and extends outrigger beams left side, deactivates fast idle and places shoring pads beneath vertical jacks handles up and towards apparatus
12. Firefighter then does the same thing on the right side.
13. Identify low side of apparatus activate fast idle and deploy jacks until outrigger deployed lights come on. (If level deploy working side first) raise until indicator ball is one line past level. Deactivate fast idle.
14. Activate fast idle and deploy jacks on opposite side until green outrigger deployed lights come on and indicator ball comes back to level. Deactivate fast idle. (if not able to level apparatus due to terrain, green zone = reduction in load; yellow zone 50% reduction; red zone no set up)
15. Check angle indicator on aerial base section. Activate fast idle and raise front or rear jacks as necessary to shift indicator ball to zero. Engineer and firefighter coordinate jack movement. Deactivate fast idle. Each line indicates a 5 degree increment. 0 to 1 line = reduction in load; 1 to 2 lines 50% reduction. Greater than 2 lines no set up.
16. Identify that the bulges have been removed from the tires. Having one or more tires off the ground will not affect stability.

17. Lower front bumper jacks until green light comes on, hold for 5 count.
18. If cribbing is needed under the front bumper jack in a cab downhill setup, no more than 2 layers of cribbing shall be used.
19. Engineer and firefighter install locking pin in each outrigger skirt on respective sides and place locking pin flags on corresponding jack lever in operator's station. Allow ¼ inch minimum between pin and skirt.

Safety Considerations:

1. Beware power lines
2. Wear full PPE
3. Wear ladder belt
4. Operator stays on turntable when ladder is elevated
5. Pump requires additional operator
6. Engineer is responsible for correct set up



