

Santa Barbara City Fire Department - Standard Operating Procedures Apparatus and Equipment Operations	Code: A-II-10
Apparatus 1880/Truck 2	
Chpt: II Reserve Apparatus	Revised: 4/4/13 Pages: 4

I. PURPOSE

A. To provide specifications and operating procedures for this specific apparatus.



II. SPECIFICATIONS

- A. 1995 Spartan tractor, Simon LTI QS 90 aerial ladder - Apparatus 1880
- B. Engine: 470 Horsepower, Detroit diesel 60-470
- C. GVW: Approximate weight 57,780 lbs. (3/4/13)
- D. Transmission: Allison HD 4560 PR 5 speed automatic
- E. Height: 11' 6"
- F. Width: 9' 8"
- G. Length: 56' 6"
- H. Hose compliment
 - 1. 5": 16' pigtail
 - 2. 2 1/2": 50' preconnect
 - 3. 1 3/4": 50' preconnect

III. OPERATIONS

- A. To Start
 - 1. Turn on master switch. (Located on left side of steering column, the far left switch)
 - 2. Turn on ignition switch. (Located just to the right of the master switch.
 - 3. Press the single start button (Truck has dual "deadman" switches. Both have to be depressed to start truck (driver and tillerperson).
 - 4. Turn ignition switch to turn engine off

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B. Driving

1. Retarder – restricts the flow of transmission fluid – must be shut off before temperature hits 350 degrees (be aware of temperature gauge and shut off at approximately 325 degrees). Possibility of burned transmission.
2. Ladder functions are PTO driven. Be sure elec. And PTO switches are in the off position before driving truck.
3. The truck is equipped with anti-lock brake warning system (two amber lights, one on the console in the cab, and one in the tiller cab). These should go out when the truck reaches approximately 4 MPH. If not, the anti-lock system may be down. Air brakes will continue to function.
4. Truck 1 weighs approximately 30 tons and is 11' 6" high. Be aware of weight limitations and low objects (trees and wires).
5. The driver is responsible for ALL accidents and moving violations, even if the tillerperson is technically at fault (per DMV).
6. The portable radio and headset located on the rear seat of the cab is for the aerial operator (engineer).

C. Generator

1. Onan 7500-watt stationary diesel generator should be started and stopped without load (all panel switches in the off position). Generator may be started from 3 sites: panel, cab (captain's side) and on the generator itself. The pre-heat should be depressed for at least 30 seconds.
2. Start buttons located in compartment #2
3. Press pre heat button for 15-30 seconds
4. Press start button
5. There are two sets of switches for the front stem lights. Two are located in the cab (captain's side) and two are on the panel. All switches must be in the on position for the lights to function.

D. Cab tilt

1. Master switch on
2. Controls in compartment #14
3. Directions on inside

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E. Aerial operations

1. See [T-V-9](#) Aerial operations

IV. LADDER INVENTORY

- A. 10' attic ladder
- B. 14' 2 section extension ladder
- C. 16' roof ladder
- D. 20' straight ladder
- E. 28' 2 section extension ladder
- F. 35' 2 section extension ladder
- G. 40' extension ladder
- H. 90' aerial ladder
- I. Little Giant combo ladder

V. LADDER MAINTENANCE

- A. Grease water way zircs after every water flow
- B. Ladder maintenance every 10 hours (use hour gauge on pedestal, not in the cab) of ladder use or every 4 months
 1. Wipe off seals and piping of residue and then wipe down with ATF. ATF deep cleans aluminum on waterway. Wipe on and then wipe off excess.
 2. Clean off old grease on inner and out mid as well as the fly with dry rags, DON'T USE SOLVENT!
 3. Paint on Amzoil (purple grease) with paintbrush or by hand, in thin even coats, especially where the pad wear patterns are on the inner and outer mids.
 4. Grease shiv wheels (Cable pulleys) zircs.
 5. Wipe off extension cylinder
 6. Silicon spray cord reel and cord
 7. Go 2 full rotations while greasing the turn table zirc
 8. Don't grease anything below the turn table

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9. Don't grease main turntable gear
10. When ladder is fully extended, washers should be loose at the end of the counter weight cylinders.
11. Check wipe rings on all hydraulic pistons for leaks
12. Lube nozzle with WD 40 and ½ shot of grease into nozzle zircs
13. WD 40 the axles on all plastic pulleys for electrical cords
14. After greasing ladder, raise to 75 degrees then retract to allow grease to cover all slide pads

C. Weekly

1. Check rung cover clips
2. Run EPU under actual emergency conditions
3. Check for sequence timing: make sure all sections move at the same time, no delays.

D. Twice a year

1. Grease the turntable zirc while rotating

[INVENTORY LIST](#)

[Truck Operations/Equipment](#)