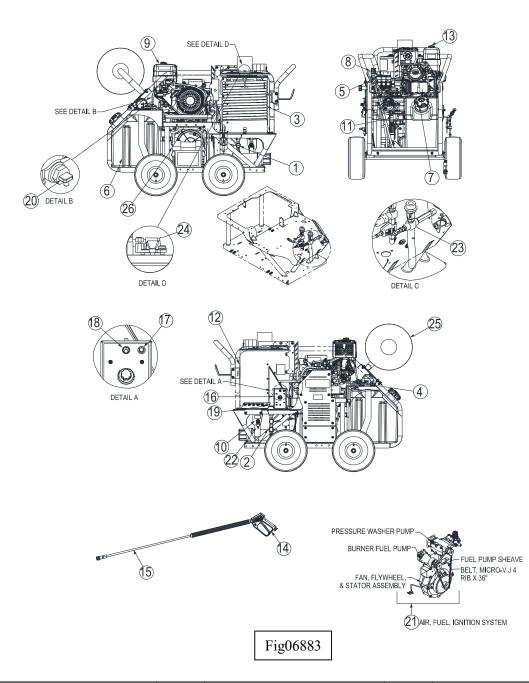
## **Component Identification**

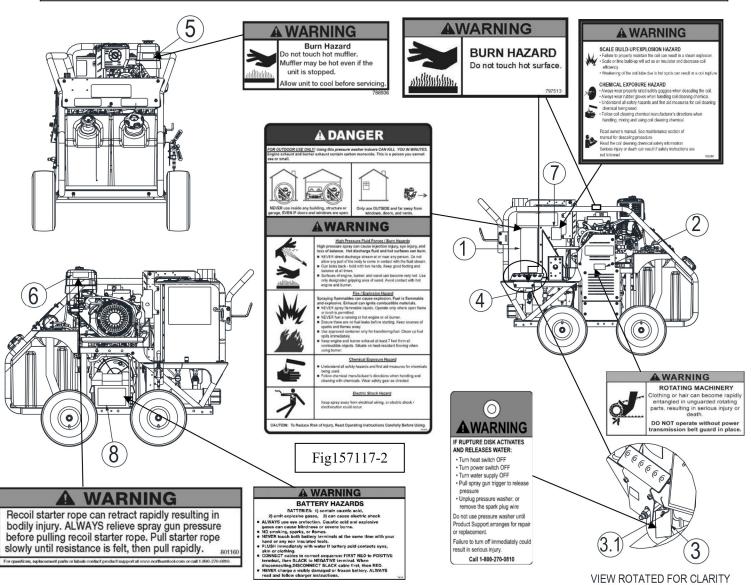


Ref #	Description	Ref #	Description	Ref #	Description
1	High PSI limit switch	10	High Pressure Outlet	19	Nozzle Storage
2	Flow Switch	11	Fuel Filter/Water Separator	20	Thermal Relief Valve
3	Heating Coil	12	Heat Exchanger	21	Air, Fuel, Ignition System
4	Garden Hose Water Inlet	13	Gas Tank & Cap	22	Chemical injector
5	Pump	14	Spray Gun	23	Rupture Disc Fitting
6	Diesel Fuel Tank	15	Wand	24	Flame Sensor
7	Diesel Fuel Cap	16	Control Box (See Detail A)	25	Hose reel (sold by Separately)
8	Unloader	17	Circuit Protector	26	Battery Box
9	Engine	18	Heat Switch		

## Component Identification cont'd

	REFERENCE GUIDE			
1. High, PSI limit switch	This is a backup safety feature, if the system pressure exceeds the set pressure this device will stop the burner from firing.			
2. Flow Switch	Mechanical device that senses water flow			
3. Heating Coil	Steel piping wound together with an inlet for incoming cold water and outlet for hot water to exit.			
4. Garden Hose Water Inlet	Means of connecting garden hose to pump inlet. Connect garden hose here.			
5. Pump	A device that moves fluid through a combination of suction and displacement.			
6. Diesel Fuel Tank	Fuel storage container for diesel fuels.			
7. Diesel Fuel Cap	Vented cover for fuel tank.			
8. Unloader	Valve that regulates pressure and directs flow into bypass when trigger is closed.			
9. Engine	The air-cooled engine powers the pump.			
10. High Pressure Outlet	Connection point for the high-pressure hose.			
11. Fuel Filter / Water Separator	Filter in fuel line that removes water and screens out dirt and debris from fuel.			
12. Heat Exchanger	Device that heats the water by forcing a flame across steel pipe.			
13. Gas Tank & Cap	Gas tank is a container for holding gas and gas cap is cover for gas tank.			
14. Spray Gun	Used to divert water out to nozzle.			
15. Grip	Section of wand to extend length and provide stability.			
16. Wand	Rod to extend length.			
17. Control Box	Housing device for mounting switches and machine controls.			
18. Circuit Breaker	Device for protecting circuit from damage if overloaded or shorted.			
19. Heat Switch	Acts as an on/off device for power to burner components.			
20. Nozzle Storage	A space for storing nozzles.			
21. Thermal Relief Valve	Safety device that discharges hot water from the pump manifold during long bypass operation.			
22. Air, Fuel, Ignition System	System provides air, fuel, and ignition for combustion			
23. Chemical Injector	Siphons cleaning chemicals into a law pressure washer spray downstream of the pump.			
24. Rupture Disc	Safety device that will open and relieve excess system pressure.			
25. Flame Sensor	Device for sensing if the burner has a flame.			
26. Battery Box	Storage place for battery.			

## Safety Labeling



Always make sure safety labels are in place and in good condition. If a safety label is missing or not legible, order new labels or unsafe operation could result. To order replacement safety labels, call NorthStar Product Support at 1-800-270-0810.

Ref.#	<u>Part #</u>	Description	<u>Qty.</u>
1	782325	Decal, Danger and Warning	1
2	786632	Decal, Rotating Equipment Warning	1
3 3.1	798057 32821	Hangtag, Rupture Disk Warning Lanyard, Hangtag Warning	1 1
4	797513	Decal, Burn Hazard Decal	2
5	788936	Decal, Burn Hazard Warning	1
6	801160	Decal, Recoil Warning	1
7	802203	Decal, Descaling Warning	1
8	782397	Decal, Battery Warning	1