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## DIRECTIONS.

Set the boiler as level as possible.

Use kerosene to clean the working parts ; when once clean, keep them so.

Fill with water about two inches in the glass of water-gauge. Use soft water if possible. Clean the pump valves before starting the Engine.

See that the piston and pump-rods are properly packed.

Oil all the bearings. Use the best sperm oil. Do not make the bearings tight at first.

Much fuel may be saved by cleaning out the flues often, and not allowing them to become filled with ashes, or coated with smut.

Never close the valve between the check-valve and boiler when the Engine is running ; this is only to be closed when taking out the pump valves. Regulate the supply of water by the valve in the suction pipe.

See that the pet-cock, that conveys the waste water from the heater, is kept open when starting.

Start and stop Engine very slowly ; open cylinder cocks before stopping, and leave open a few minutes after starting. Care should be taken that the governor stuffing-box is not screwed down too tightly, which sometimes occasions spasmodic action of the governor, See that the governor works freely.

The speed of Engine may be increased by screwing thumb-nuts on governor spindle.

Never allow the water to get out of sight in water-gauge. If, through want of attention, no water should be seen in the water gauge, or gauge cocks, put out the fire without delay ; failing to do this there is danger of explosion. If using impure water, blow out every week.

Never put any extra weight on safety valve. Occasionally raise the lever to see that the valve works free. Keep the ashes from under the grate, and never allow coals or ashes to accumulate in back end of boiler. Never leave the fire door open except when attending to the fire or fuel. Close the damper when you have too much steam.

If possible, time your machinery so that the Engine may run as the governor dictates, with the throttle-valve open.