

# Weeden Steam Engine and Pump, No. 37



The Steam Force Pump is new this season, and is designed to illustrate the manner of pumping and forcing water by steam pressure. It is a Force Pump and Engine combined.

Oil engine bearings and cylinder with a good sewing machine oil and always clean it neatly after use.

**TO FILL THE BOILER** Unscrew the filler cap on top of the boiler and pour in clean water until the water glass shows that the boiler is about one-third full; replace the filler cap and screw it down firmly on its seat.

**TO FILL THE LAMP.** Take out the wick from the lamp tube and pour into the lamp  $1\frac{1}{2}$  measures of clean alcohol, also put a little alcohol on top of the wick. Wipe off any alcohol spilled on top in filling and place the lamp under the boiler before lighting.

**Do not close vent in lamp.**

**TO GET UP STEAM** Touch a lighted match to the end of the wick in lamp tube and see that the flame burns with a clear bluish color and in a minute or two it will begin to throw water.

If cold water has been used it will take from five to ten minutes to get up steam; by putting warm or hot water in the boiler, both time and alcohol will be saved.

Procure a tin cup or can or any other dish that will hold about a quart and fill it with clean water, and insert the end of the suction hose and you are ready to begin pumping.

As soon as a drop or two of water or a little steam shows itself around the cylinder, it is an indication that steam is up and the pump is ready to start. Now gently turn the balance wheel with the finger and the pump will begin to work. Inasmuch as it requires considerable power to suck up and force out the water, a large flame must be used and the engine must be run at high speed.

Always bear in mind that the size of the lamp flame controls the speed of the engine. If the engine runs too slowly pick up the wick a little.

Always be sure that the nozzle is free. Should any obstruction get into the nozzle it can be easily removed by insertion of a small wire or broom corn.

More or less water will always escape around the water cylinder therefore if the pump is run in the house it should be placed in a dish of some kind.

Be careful and not get a short bend in the hose as it will prevent a free flow of water.

Never pump anything but clean water, as dirty water will clog the water ports and nozzle and stop the pump.

Be very careful to direct the hose away from the pump, so as not to throw the water from the nozzle on the hot boiler or into the lamp flame or alcohol fount.

Extra leading hose can always be procured at any drug store.

Every one is thoroughly tested before being packed for shipment, and unless some damage happens to them after leaving the factory, they will be found to perform perfectly.

## Price List of Duplicate Parts.

Air Chamber,.....	20c
Cylinder with Nut and Spring;.....	25c
Filler and Safety Valve.....	25c
Balance Wheels.....	each, 25c
Water Glass.....	10c
Water Glass with Nuts.....	20c
Whistle complete,.....	15c
Lamp.....	15c

The above duplicate parts can be obtained from any Toy Dealer, or will be forwarded from our factory, postpaid, to any address on receipt of price.

Weeden Mfg. Co., New Bedford, Mass.

**NOTICE**—We will not be responsible for failure of this engine to run as guaranteed if other fuel than alcohol is used.

**Made in U. S. A.**