

# Weeden Engine, No. 32, 34

## Directions for running.

In taking engine from box handle it carefully as it is quite heavy and a fall will spoil it.

**FIRST**—Oil your engine at the bearings use sewing machine oil, and always clean it neatly after use.

Now note carefully all parts of the engine and boiler. Unscrew the top of the safety valve and notice the spiral spring and plug. If there is too much pressure of steam this spring contracts the plug rises and allows the excess of steam to escape.

Notice that the whistle valve lifts like a pump handle. When it is up the valve is open, and when down it is closed. Sometimes it may be necessary to tap the whistle gently with a knife handle or some small article to make it close tight.

The water gauge is open to the boiler at each end and allows the water and steam to circulate freely.

The sheet iron jacket over the boiler is to prevent loss of heat by radiation. The exhaust for steam is under the steam chest.

Examine throttle valve; when it is open the wooden handle should be parallel with steam pipe. To close, turn so it will be at right angle with pipe.

The lamp has a small tube into which a plug is fitted. By removing the plug the lamp can be readily filled. There are two little vent holes between the lamp tubes, these are to supply air to lamp as the alcohol burns away, and must always be kept open.

**TO FILL LAMP**—Remove the plug and pour in alcohol until fount is one-half full, put the plug back and wipe off any alcohol spilled. The lamp wicks should be about even with top of lamp tubes. If engine runs slow, pick up the wicks a little so as to give a larger flame.

**TO FILL BOILER**—Unscrew safety valve and pour in clean water, until the water glass shows boiler to be about one-third full, screw down safety valve; place lamp under filler and light it, at the same time see that the throttle valve is closed. Always use **HOT WATER** as it saves alcohol.

If water is **BOILING HOT** and the lamp flame good, steam should be up in about five minutes. Lift the whistle valve and if the whistle responds sharply, close the whistle valve and open the throttle valve and the engine is ready to run.

The boiler will not make steam fast enough with an ordinary flame to keep the engine running and whistling at the same time. When the whistle is open, therefore, the throttle should be closed.

When water is no longer to be seen in the water glass, the engine must be stopped and boiler refilled.

The ends of lamp wick must be kept clean in order to give a clear, bright flame.

This engine will run from 20 to 30 minutes, depending on amount of water put in the boiler.

Because the cylinder and steam pipes are practically cool when the throttle is first opened some steam will condense into water in the pipes and cylinder. The condensed water must be got rid of in order to allow steam to enter the cylinder. Insert the finger between the spokes of the balance wheel and turn it until all the water is forced out and the steam takes hold.

Each engine has been tested by steam, is carefully packed, and is in good running order when it leaves the factory.

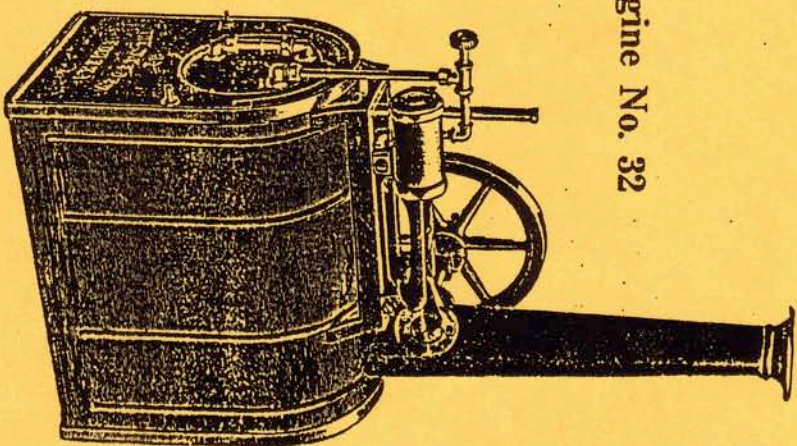
## Price List of Duplicate Parts.

Nickel plated brass tubes in 6 or 12 inch lengths,	40c per foot
Elbows or T joints for connections,	15c each
Tubing in shorter lengths than 6 inches,	15c per piece
Whistle,	75c
Governor,	40c
Safety Valve, complete,	75c
Balance Wheel,	50c
Water Glass with Nuts,	45c
Lamp,	50c
Steam Dome,	45c
Water Glass with Nuts,	30c

These small tubes can be used for conveying steam from the exhaust pipe to any point desired.

**NOTICE:** We will not be responsible for failure of this engine to run as guaranteed if other than alcohol is used.  
Made in U. S. A.

Engine No. 32



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