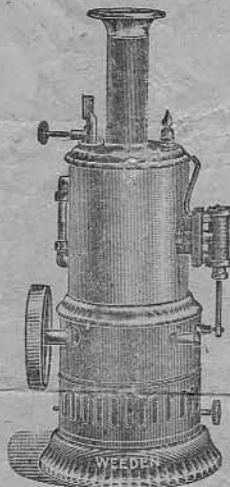


# Weeden Engine, No. 20



## 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 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.

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

This engine is intended to burn either alcohol or petroleum; if the user can afford alcohol it is much preferable as a fuel as it gives a clear blue flame without smoke. If petroleum is used the engine must be thoroughly cleaned each time after using as more or less soot will deposit on the crown sheet of the boiler, and this will prevent the water from heating readily.

**TO FILL THE LAMP**—Pour 2 measures of alcohol or petroleum slowly into the lamp, and put a little on the end of the wick in the tube; wipe off any fuel that is spilled on top in filling and the lamp is ready to use. Have wick extended a little above wick tube.

**DO NOT CLOSE FILLER HOLE.**

**TO FILL THE BOILER**—Open the whistle valve so that the air in the boiler can escape; unscrew the safety valve, this leaves the filler hole open through which you may pour 7 measures of clean hot water into the boiler which will show the glass about seven-eighths full leaving the upper space for steam. You are now ready to fire up.

When filling boiler if the gauge does not register, tip engine slightly towards glass and this will drive any air out of gauge and the water should register.

Light the lamp, and as soon as a good flame is burning place it under the boiler. Screw the safety valve back into boiler, close the whistle valve and in about two minutes steam will be up.

In getting up steam it is always better to open whistle valve a little, as the blowing off of steam from the whistle indicates that the engine is ready to run. Shut the whistle valve before starting the engine.

## CAUTION!

Should the flame be too small to generate steam easily, pick it up higher so as to make a larger flame.

Be careful to have your lamp burn with a clear bluish flame; when it burns yellow and low and the wick begins to blacken, it is a sure indication that the fuel has burned out and the lamp requires filling.

If your flame is good and your engine runs slow with but little steam it is an indication that the water is out of the boiler. When this occurs remove the lamp at once, or the dry boiler will become overheated and spoiled.

Avoid the use of dirty water, as by it the steam ports become clogged and your engine stopped.

Each engine has been tested by steam and is in good running order when it leaves the factory, and is carefully packed. We feel confident that any boy who will study this simple explanation and follow our directions closely, can set up and run our little engine without difficulty and we trust he will derive both pleasure and instruction from its use.

## Price List of Duplicate Parts.

Lamp . . . . .	40c
Smokestack . . . . .	15c
Pulley . . . . .	15c
Nut and Spring . . . . .	15c
Safety Valve . . . . .	25c
Whistle complete . . . . .	30c
Cylinder complete . . . . .	40c
Balance Wheel with Pulley Shaft and Crank . . . . .	40c
Water Glass with Nuts and Washers . . . . .	30c
Boiler . . . . .	1.00

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.

MADE IN U. S. A.