

TB 10-400-1
War Department Technical Bulletin

YOUR GASOLINE STOVE

- HOW TO LIGHT IT
- HOW TO KEEP IT BURNING
- HOW TO KEEP IT WORKING WELL

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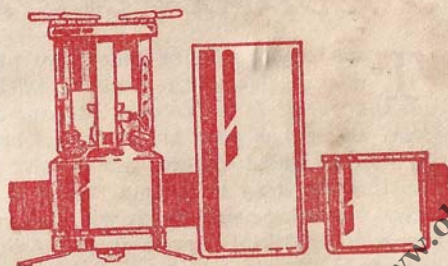
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YOUR GASOLINE STOVE

Introduction

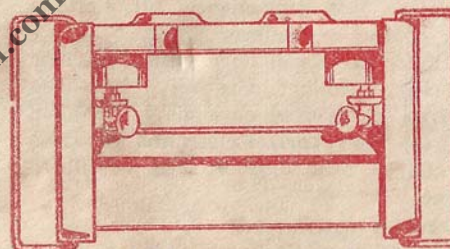
The Gasoline Stove which you have just received is the finest of its kind in the world. It is the envy of your enemy as well as your allies. It has been carefully tested before you receive it so that you may be certain that it is in good operating condition. It will give you long and faithful service if you follow carefully the instructions contained in this book. Read them carefully so that you understand them; then keep this book with you at all times.

If your stove is of the one burner
type which looks like this:



you will find that this booklet will fit
conveniently inside the top of the cover
of the carrying case. Keep it there so it
will always be available when you need it.

If your stove is of the two burner
type which looks like this:



you will find that this booklet will fit
along with the stove, inside the carrying
case. Keep it there so it will always be
handy when you need it.

Instructions in this booklet apply equally well to either type stove; both are equipped with the same type of burners. For convenience, all pictures are of the one burner stove.

Your stove will burn either ethyl or regular gasoline; however, if leaded (ethyl) gas is used, care should be taken to keep the vaporizer clean and the stove should be used only in well ventilated places.

To Fill Your Stove -

1. Close fuel control valve.
2. Remove filler plug and fill tank.
3. Replace and tighten filler plug.

(A diagrammatic sketch showing all parts of the stove is to be found on the center spread of this book.)

How to Light your Stove in 7 easy steps

1 Unscrew the pump handle by turning it two turns to the left.



2 Place your thumb over the hole in the top of the pump handle and pump thirty-five (35) to fifty (50) times.



3 Push the pump handle in all the way and screw it to the right until it is tight.



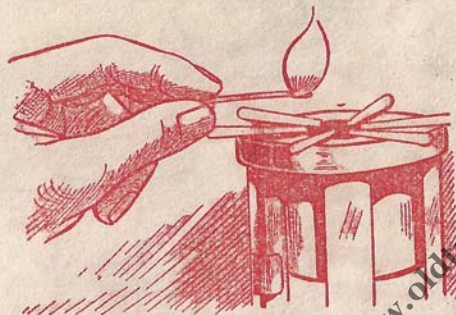
4 Turn the wire lever which is located on the valve completely around several times, leaving the lever in the "down" position.



5 Light a match.



6 Turn the valve knob a quarter turn to the left.

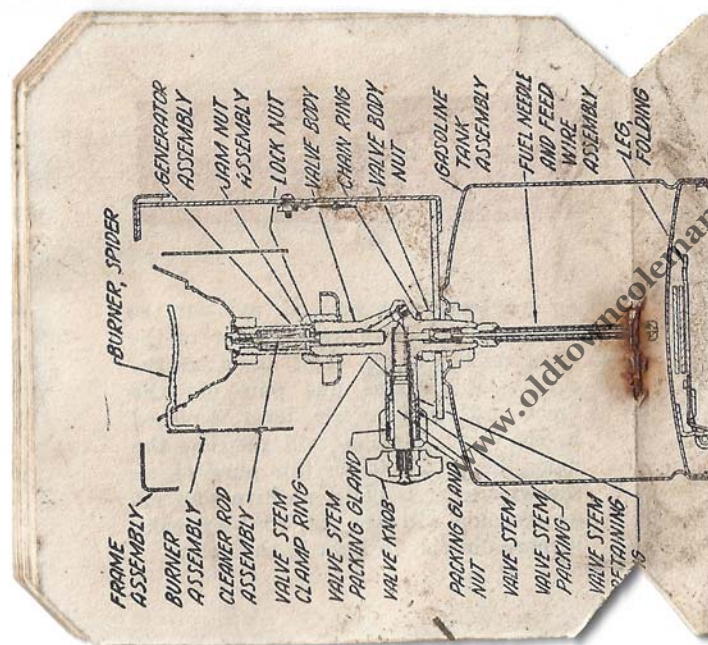


7 Light the stove by placing the match slightly above the top of the burner, being careful to keep the hand to one side.

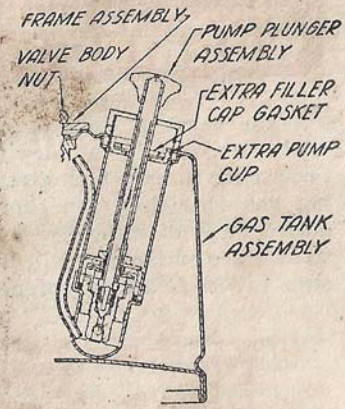
How to **KEEP** it Burning . . .

FIRST After the stove has been burning for three or four minutes, the yellow flame will subside and become completely blue. When this happens, turn the valve knob as far to the left as possible (this may be as many as six or seven full turns).





GASOLINE STOVE ASSEMBLY



PUMP ASSEMBLY

How to keep it WORKING WELL

Your gasoline stove is very simple mechanism, and if you follow the instructions that you have been given for lighting and operating, you should have a minimum of difficulty. If, however, trouble does arise, you will find the answer in the following paragraphs.



IF THE FLAME IS TOO HOT,

turn up the wire cleaning lever. This will cut down the amount of fuel and will throttle down the flame.



IF THE FLAME STARTS TO FLICKER,

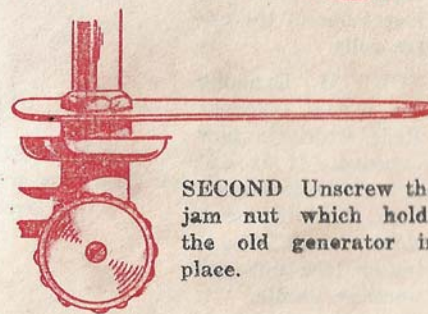
clean the tip by turning the wire cleaning lever completely around several times (either way). This will probably put out the flame, so you must keep a lighted match in readiness. Be sure to reignite the stove at the first possible moment to avoid flooding the stove with raw fluid.

IF THE STOVE WILL NOT LIGHT OR
IF IT FLICKERS EVEN AFTER
CLEANING THE TIP,

use the extra genera-
tor assembly attached
to the inside of one of
the up-rights to re-
place the old one that
you have been using.
To do this, you must:

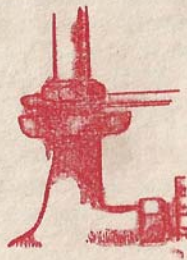


FIRST Unscrew the
crown of the burner.
This is done by turning
the burner assembly
counter clock-wise.



SECOND Unscrew the
jam nut which holds
the old generator in
place.

SEVENTH With the wire lever in the "up" position slide the new generator into place making sure that the needle barely comes through the hole in the generator tip. If the needle is too far through the generator tip it will block the hole when the lever is in the down position.



EIGHTH Tighten the jam nut.

NINTH Screw on the burner assembly.

TENTH Clean the underside of the Spider Burner by scraping it with a stick or wire. If not cleaned off occasionally a carbon deposit will form and cause the flame to blow back, impairing the efficiency of operation.



CARRYING THE STOVE

Whenever you carry your stove with gasoline in it, loosen the screw cap on the gasoline tank to release the air pressure, then retighten. Be sure to check the valve, making certain that it is closed. If it is a one-burner stove, put the small utility cup into its place so that it will not jam on the chain.

HELPFUL HINTS

Two bayonet lock utensils in which stove is packed can be used for preparation of hot food for men in vehicle in which stove is carried. The larger utensil will hold two cans of C Ration - Meat Unit. By placing cans in the container and putting in sufficient water, these C Rations can be heated in approximately six (6) minutes. The smaller utensil can be used for heating water for the preparation of coffee. By folding out the six pronged grate, additional space is allowed to place larger utensils on the stove. By folding out the feet of the stove, added rigidity can be accomplished.

This stove will give long and satisfactory service if properly cared for and kept clean.

If the utensils have a gasoline odor, they may be inverted over the flame of the stove in order to burn the odor out. A small amount of hot water washed around inside the container will likewise remove odor. This stove can be used to heat water for shaving and other purposes.

Under certain atmospheric conditions and especially in the higher altitudes, there may be a slight tendency for the burner to flood when the stove is being lighted. This isn't alarming for the few drops of raw gasoline that may happen

to collect in the burner will soon vaporize and burn out.

Ample pressure should be maintained in tank to produce an active blue or slightly orange colored flame on burner.

In extremely high altitudes it is a good plan to have less air in the tank when lighting. Excess pressure in the tank will cause flame to blow away from the burner, thus aggravating the tendency to flood.

Keep the leather pump washer soft and pliable by oiling it in the following manner:

1. Unscrew pump cap, being careful not to pull pump leather out of tube.
2. Place a few drops of oil in the barrel.
3. Replace cap and screw home.

The Burner Head should be checked frequently to insure tightness. If the Burner Head is not tight, the flame will flash yellow and have a tendency to lose generation.

The tightness of all nuts should be checked frequently. If gasoline leaks develop, close the valve and tighten nuts. **EXTREME CARE SHOULD BE TAKEN NEVER TO TIGHTEN NUTS WHEN THE STOVE IS BURNING.**