

# SUGGESTIONS

## About Care and Use of Coleman Instant-Lighting Stove Model 520

### A. If Flame Burns Yellow

- CAUSE:** Carbon or gum bridging across outside of generator Gas Tip.  
**REMEDY:** Remove Burner Head and scrape off gum.  
**CAUSE:** Carbon building up on underneath side of burner plate.  
**REMEDY:** Use sharp instrument and scrape off carbon from underside.  
**CAUSE:** Generator stopped up with dirt or carbon.  
**REMEDY:** Remove generator and clean.

### B. If Stove Does Not Burn At All

- CAUSE:** No fuel, lack of air pressure.  
**REMEDY:** See that fount contains clean fuel and then pump in 25 to 30 strokes of air into fount.  
**CAUSE:** Generator stopped up.  
**REMEDY:** Clean Generator.

### C. If Generator Lasts Only a Short Time

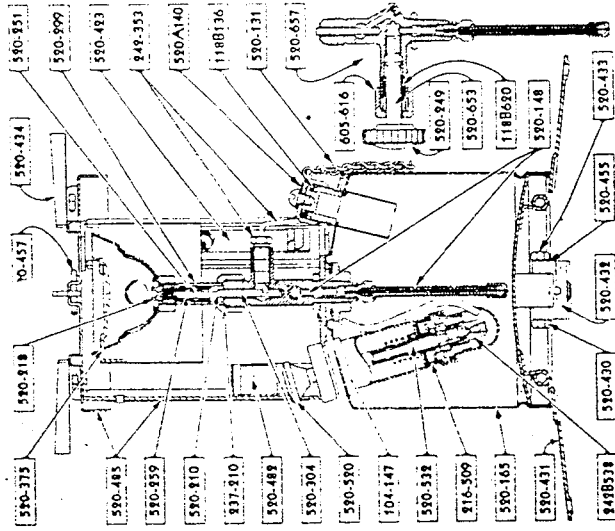
- CAUSE:** May be dirt from gasoline or loose carbon in the Generator.  
**REMEDY:** Clean Fount and Generator thoroughly — strain gasoline when filling fount.

### D. If Built-in Pump Does Not Work

- CAUSE:** Pump leather may be dry.  
**REMEDY:** Remove Pump Plunger and soften Pump leather with oil.  
**CAUSE:** Pump Leather worn out.  
**REMEDY:** Put in a new Pump Leather.  
**CAUSE:** Plunger in check valve is stuck.  
**REMEDY:** Remove the Pump Plunger. Insert screw driver in the pump barrel and unscrew, then remove the check valve. Wash check valve thoroughly in gasoline and replace. If the pump still does not work replace the check valve with a new one.

## THREE THINGS TO DO WHICH WILL HELP THIS COLEMAN STOVE GIVE YOU BETTER SERVICE AND LONGER SERVICE.

1. Always use a good grade of fresh, clean gasoline. Use non-leaded gasoline when available. Burns leaded gasoline satisfactorily; however, adequate ventilation must be provided to avoid harmful effects from lead fumes.
2. Read and carefully follow instructions given in this Direction Folder. If you will do this, you will avoid difficulties that result from improper operation and which are due to no fault of the product.
3. Clean out the Fount of the Stove every few months. This keeps the residue, which collects in the bottom of the fount, from stopping up the Generator. If stove is to be stored away or is not used for some-time, remove all Fuel from Fount.



Parts List for Coleman Instant-Lighting Stove Model 520

| Order by Number | Name of Part                                     | Net Price |
|-----------------|--|-----------|
| 104-147         | Lock Nut   | \$0.06    |
| 118B136         | Filler Plug Gasket                               | 03        |
| 118B620         | Valve Stem Packing                               | 03        |
| 216-509         | Pump Leather                                     | 06        |
| 237-210         | Jamb Nut   | 09        |
| 242-353         | Tip Cleaner Stem Complete                        | 18        |
| 242B538         | Check Valve                                      | 21        |
| 520-131         | Chain  | 03        |
| 520-148         | Fuel and Air Wire Complete (Fuel Tip Marked "O") | 15        |
| 520-165         | Fount Assembly                                   | 3.45      |
| 520-210         | Rod Lock Nut                                     | 03        |
| 520-218         | Gas Tip (Marked "F")                             | 12        |
| 520-249         | Valve Wheel                                      | 09        |
| 520-251         | Cleaner Rod and Needle                           | 21        |
| 520-259         | Filler Screen                                    | 00        |
| 520-299         | Generator (Gas Tip Marked "F")                   | 75        |
| 520-304         | Eccentric Block                                  | 09        |
| 520-375         | Burner Head Complete                             | 90        |
| 520-423         | Utility Cup Clip                                 | 06        |
| 520-424         | Utility Cup                                      | 1.20      |
| 520-430         | Leg Nut  | 06        |
| 520-431         | Leg - Plain                                      | 09        |
| 520-432         | Leg - Formed                                     | 09        |
| 520-433         | Leg Stud   | 06        |
| 520-434         | Grate Bar  | 09        |
| 520-438         | Utility Cup, Double                              | 2.40      |
| 520-455         | No. 8 Lock Washer                                | 03        |
| 520-457         | Coiler Key                                       | 06        |
| 520-482         | Generator Holder                                 | 09        |
| 520-485         | Frame Assembly                                   | 90        |
| 520-520         | Pump Plunger Complete (Less Air Stem)            | 36        |
| 520-532         | Pump Air Stem                                    | 09        |
| 520-653         | Valve Stem Complete                              | 36        |
| 520-657         | Fuel Valve Complete                              | 2.40      |
| 520-A140        | Filler Plug Complete                             | 18        |
| 605-616         | Pack Nut   | 12        |

"Prices Subject to Change Without Notice"

### WARNING

For Longest Service: For Best Service Use Only Genuine Coleman Parts and Accessories on this Coleman Appliance. Each Individual part is designed to exact precision and to work perfectly with all other parts; therefore, only Genuine Coleman Parts and Accessories can be trusted to give satisfactory service. The use of other than Genuine Coleman Parts and Accessories invalidates the Coleman Guarantee.

# DIRECTIONS for Operating Instant-Lighting Coleman

## STOVE Model 520

RETURN TO  
J. E. H.

Made in the United States of America

The Coleman Lamp and Stove Company

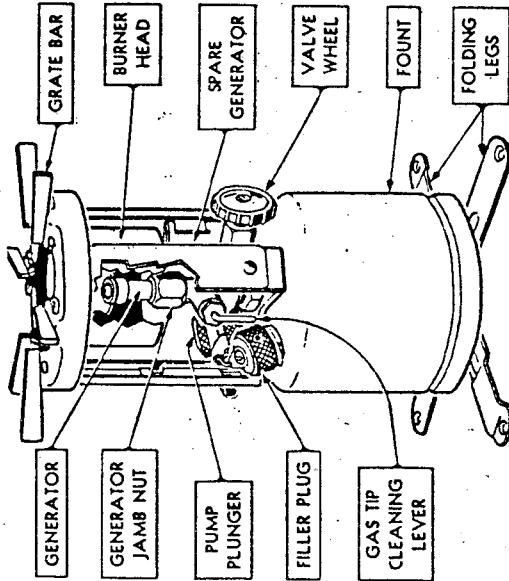
General Offices and Factory: WICHITA, KANSAS, U.S.A.  
 Canadian Office and Factory: Toronto, Canada  
 Sales Offices: Chicago, Philadelphia, Los Angeles;  
 Honolulu, Hawaii.

# DIRECTIONS for Operating Coleman

## Instant-Lighting STOVE

### Model 520

Carefully follow these directions to insure trouble free operating results with your new Coleman Instant-Lighting Stove.



#### A. TO SET-UP STOVE

Remove Utility Cup. Pull straight up to remove the cup which is held in place by spring tension in the groove.

Turn grate bars out to make full sized grate. Turn the legs in the base out to give a greater base area. When packing, the plain leg **MUST** be turned in **FIRST** then alternate with offset and plain legs.

#### B. TO FILL

Be sure fuel valve is tightly closed by turning the valve wheel to the right.

Remove Filler Plug and fill Fount with fresh clean gasoline. Use Non-Leaded Gasoline when available. Burns leaded gasoline satisfactorily, however adequate ventilation must be provided to avoid harmful effects from lead fumes.

Do not tip stove while filling. Always set it flat on its base. We suggest the use of the Coleman No. 0 Filtering Funnel for straining the gasoline.

As soon as fount is filled, replace Filler Plug Cap and tighten firmly with fingers.

#### C. TO PUMP

See that the Fuel Valve is closed, then open the air check valve inside of the pump barrel by turning the Pump Plunger two full turns to the left.

Place the ball of the thumb over the hole in the end of the Pump Plunger and pump 25 to 30 full strokes of air into the fount. Now turn the Pump Plunger to the right to seat the air stem in the check valve.

Remove thumb and push the pump plunger back into the pump barrel. Additional pressure should be added later while the stove is generating. Good Pressure is important. Keep the pump leather soft with a few drops of oil.

#### D. TO LIGHT

On the valve of the stove you will note the wire Gas Tip Cleaning Lever. Revolving the lever causes the gas tip cleaning needle inside the generator to work up and down. This keeps the gas tip clean and open. Turn the lever several revolutions before lighting. Be sure that the lever is left pointing down so that the needle will be out of the gas tip.

Have a match handy ready to light, now **OPEN THE FUEL VALVE ONE-FOURTH TURN ONLY**. Then light the stove at the top of the burner head. It may require a few seconds for the gas to reach the burner head but when it does it will light instantly. When the flame burns blue (about 5 minutes) open the fuel valve **AS FAR AS POSSIBLE**. This is important and must be done in order to get good operating results.

It is impossible to open the fuel valve too far. The gas tip cleaning lever should be used for flame adjustment. Turning the lever up slightly will run the needle into the gas tip thus limiting the flow of gas to the burner.

**NOTE:** A higher fire can be had after lighting the stove by pumping in additional pressure.

#### E. TO TURN OUT STOVE

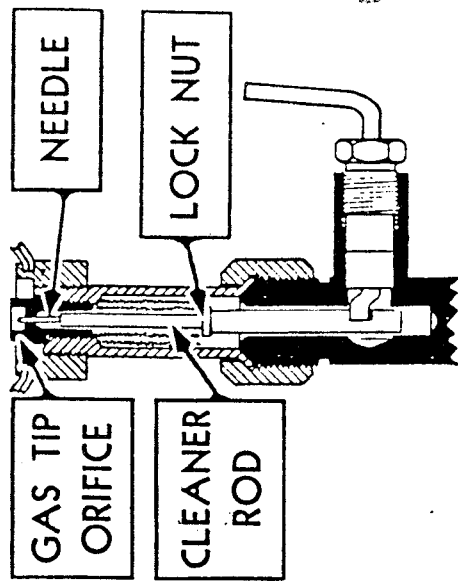
Turn the fuel valve to the right until closed. The flame will die out in a few seconds.

#### F. TO CHANGE GENERATORS

Remove the burner head by unscrewing to the left. When loosening the jamb nut at the base of the generator—Hold the Valve Body so that it will not be loosened in the fuel container (Fount).

**TO CLEAN GENERATOR**—Remove screen filler and scrape all carbon from inside of generator. Do not force anything through gas tip hole as this would increase size of opening. Unroll screen and clean, taking care not to damage screen. Screen must be rolled tightly around cleaner rod before being put back into the generator to insure proper lighting.

Care must be taken not to damage the needle when reassembling generator over the needle.



#### G. TO CHANGE CLEANER ROD AND NEEDLE

Turn tip cleaner lever up and loosen lock nut at base of cleaner rod then unscrew rod to left. The new cleaner rod and needle can now be put in and adjusted to the proper length. Be sure and lock in place after adjustment is made by using lock nut from old stem. When tip cleaner lever is turned up the needle should come through the gas tip orifice about  $\frac{1}{16}$ " but should not extend above the top of gas tip. Do not try to service a bent or otherwise damaged needle. (See illustration above for correct position of needle).

#### H. KEEP FOUNT CLEAN

For best results it is recommended that the fount be thoroughly cleaned occasionally. This removes yellow dirty gasoline, water and sediment which would otherwise stop up the generator and cause difficulty in operation.

Your stove will light easier and better on fresh gasoline.