

How to Operate and Service your



INSTANT-LIGHTING

Model No. 413E

TWO BURNER CAMP STOVE



*To obtain satisfactory results,
read and follow these instructions carefully
step by step.*

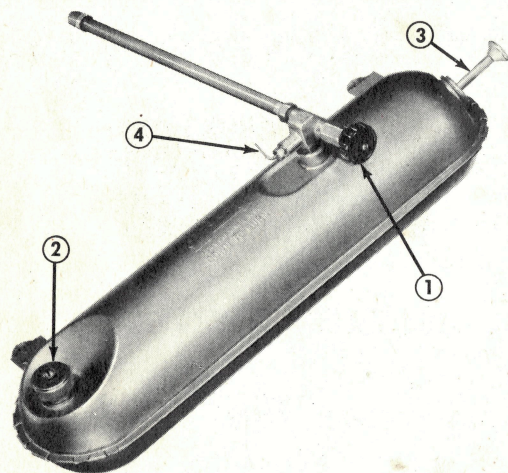


Made in United States of America

The Coleman Company, Inc.

General Office and Factory: WICHITA 1, KANSAS, U. S. A.
Canadian Office and Factory: Toronto, Canada
Sales Offices: San Francisco 3; Los Angeles 1

HOW TO USE YOUR 413E TWO BURNER CAMP STOVE



Always Use The Right Kind of Fuel

Those substances in gasoline which do not vaporize will collect in the generator in the form of carbon. The amount of service obtained from a generator depends therefore, to a great extent upon the kind and quality of fuel used.

If available, use a clean, fresh, unleaded gasoline. Never use a gasoline containing lead compounds or lubricating oils. Keep gasoline supply in a small, clean, closed, metal can. Do not use a glass container because of hazard in case of breakage.

If a suitable unleaded fuel is not available, then ask your service station operator to inquire of, or write to his company. Most oil companies make available a special stove and lighting fuel or naphtha for use in those localities where a suitable white gasoline is not available.

To Open Stove

Pull the supporting legs down until they snap into place. Open the lid to a level position with the stove by letting the rod bracket support it. If the wind is blowing to the extent that the burners need protection, then support the lid in an upright position by running the wire support rods at the ends of the camp stove through the holes in the wind baffles. Raise the grate and lift out the tank assembly.

To Fill Tank

Be sure generator valve (1) is closed tightly by turning valve wheel to the right. Unscrew filler cap (2). Have tank in a level position while filling it with clean, fresh fuel. The tank will hold approximately three pints. Replace filler cap and tighten firmly with fingers.

To Pump Air Pressure Into Tank

Be sure that the generator valve (1) and the filler cap (2) are closed firmly. Turn pump plunger knob (3) approximately two complete turns to the left. Place thumb over small hole in pump plunger handle and pump 35 to 50 full strokes of air into tank. Now turn the pump plunger knob to right until tight.

To Place Tank And Generator Unit In Operating Position

Push carrying handle up out of the way. Insert the generator into large hole at right end of stove, then into opening in mixing chamber. Engage the hanger brackets into slots in front of case to support the tank.

To Instant-Lite Master Burner

Be sure auxiliary valve is closed. Turn the instant-lighting lever (4) on valve body to "UP TO LIGHT" position. While holding a lighted match above master burner, open generator valve by turning valve wheel (1) as far as it will go. When burner lights, close generator valve stem until you have the flame under control. Maintain a strong active flame on the burner for approximately one minute. At that time, the flame on the burner should be quite blue so turn the instant-lighting lever (4) to "DOWN TO BURN" position. Flame regulation is obtained by turning valve wheel (1) to the right or left. Increasing the air pressure in the tank will increase the force or efficiency of the flame.

To Light Auxiliary Burner

After the main burner has been lighted, the auxiliary burner may be lighted by opening the auxiliary valve while holding a lighted match above the auxiliary burner. You may adjust the flame on the auxiliary burner to any desired height by turning the auxiliary valve to the right or left. Changing the height of the flame on the auxiliary burner

will affect the flame on the master burner to the extent that it may be necessary to again regulate the flame on the master burner.

To Turn Auxiliary Burner Off

Turn the auxiliary burner valve to right until closed.

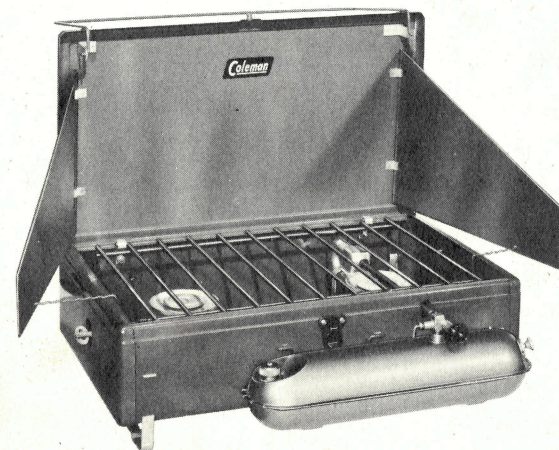
To Shut Off Main Burner

Turn the instant-lighting lever (4) to "UP TO LIGHT" position and allow the stove to burn for about one minute on the instant gas mixture. This clears the heavier parts of the fuel from the generator and makes possible better instant-lighting results the next time the stove is used. Now turn the generator valve wheel (1) to the right and tighten firmly. The valve stem seats in the valve body to provide a positive shut off at that point. The few drops of gasoline trapped in the generator tube will continue to vaporize and may produce enough gas to carry on the flame for a minute or so.

To Pack Stove Into Carrying Position

Reverse the procedure followed in setting up the stove. The tank and generator assembly should be placed in the left end of the stove as you stand in front of it.

After locking lid in place, lay stove down with bottom side up. Push in on both ends of the stove leg at the same time in order to unlock the legs; then you can push them back into the frame.



GENERAL SUGGESTIONS

KEEP BURNER PARTS clean. An obstruction, such as a burned match head, near fillers in cap, will produce a yellow flame at that point.

THE PUMP PLUNGER is not only used for pumping air pressure into the tank but it acts as a wrench to turn the air stem. Turning the plunger to the left, unscrews the air stem so air may be forced through the check valve at the bottom of the pump barrel. Turning the pump plunger to the right, screws the air stem into the check valve to provide a positive shut off at that point. Air pressure may be added while stove is burning. Oil the leather occasionally for greater efficiency.

KEEP TANK CLEAN by rinsing it occasionally with clean fuel.

IF STOVE IS to be stored for any length of time be sure to empty the tank to prevent any acid in the gasoline from damaging tank. Remove filler cap and you can pour the gasoline out through the filler cap bushing. Gasoline, if left in tank for a long time, might sour and produce a gum or varnish like substance which would interfere with correct operation of the instant-lighting mechanism.

THE STOVE GENERATOR is merely a device for vaporizing or changing the liquid fuel to a vapor. Eventually the generator may fill up with carbon to the extent that no more fuel may be forced through it. It would be well, therefore, to keep an extra generator, No. 413A2621, on hand for a spare.

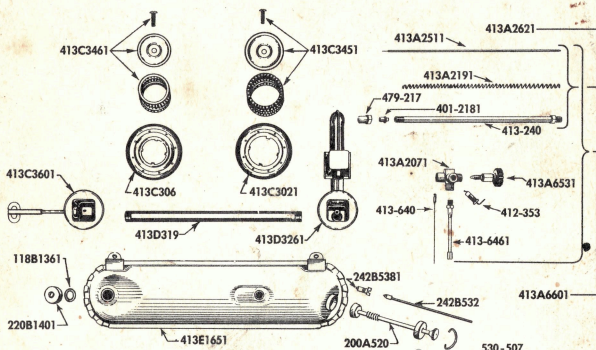
THE GASKET IN filler cap may deteriorate with age. It might be well to install a new, No. 118B1361 gasket every year or so if the old one is hard and brittle.

AFTER EACH CAMPING trip be as careful about cleaning tank and other parts of your Camp Stove as you are about cleaning your fishing tackle or gun and your Coleman Camp Stove will render you faithful service.

CONTACT YOUR DEALER when you need service assistance or parts for your stove. If necessary to write The Coleman Company, Inc., mention that the stove is a No. 413E.

PARTS LIST FOR COLEMAN CAMP STOVE

No. 413E



Parts No.

NAME OF PART

118B1361	Gasket (Filler Cap)
200A520	Plunger (Pump)
216 - 509	Leather (Pump)
220B1401	Cap (Filler)
242 - 620	Packing (Valve Stem)
242B532	Stem (Air)
242B5381	Valve (Check)
401 - 2181	Tip (Marked "B")
412 - 353	Stem (Tip Cleaner)
413 - 240	Tube (Generator)
413 - 640	Block (Eccentric)
413 - 6461	Tube (Fuel and Air)
413A2071	Body (Valve)
413A2191	Coil (Generator)
413A2511	Rod and Needle
413A2621	Renewal Assembly (Generator)
413A6531	Stem (Valve)
413A6601	Generator Assembly
413C3021	Bowl (Master Burner)
413C306	Bowl (Auxiliary Burner)
413C3451	Cap and Fillers (Master Burner)
413C3461	Cap and Fillers (Auxiliary Burner)
413C3601	Body and Valve Assembly (Auxiliary Burner)
413D319	Pipe
413D3261	Body and Bunsen (Master Burner)
413E1651	Tank
479 - 217	Protector (Tip)
530 - 507	Clip (Pump Cap)

SEE YOUR COLEMAN DEALER FOR REPAIR PARTS