

rts List For Model 527 Military Burner

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No.	Name of Part
.304	Eccentric Block
509	Pump Leather
620	Valve Stem Packing
538	Pump Check Body
520	Pump Plunger complete
532	Air Stem
131	Filler Plug
136	Filler Plug Gasket
159	Tank
299	Vanariser
253	Tip Cleaner Stem complete
357	Instant Lite Body complete
375	Burner
425	Container Tube Cap
€53	Valve Stem complete
£57	Valve complete
950	Wrench

WARNING

Vaporizer Nut.....

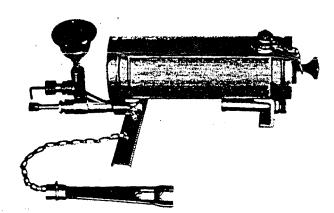
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Covering the Operation and Maintenance

Coleman

MILITARY BURNER

Model No. 527



Made in the United States of America By

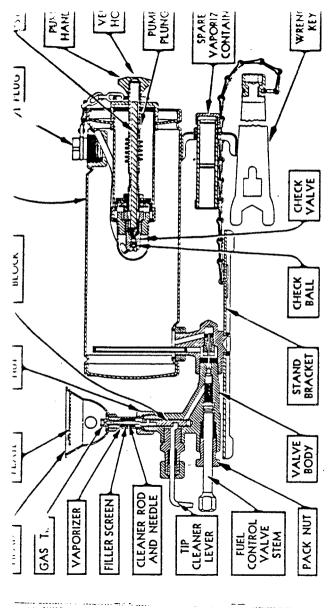
The Coleman Company, Inc.

General Offices and Factory: WICHITA 1, KANSAS, U.S.A.
Canadian Office and Factory: Toronto, Canada

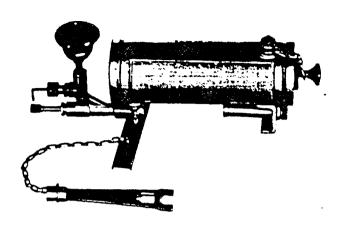
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F1298 Honolulu, Hawaii

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COLEMAN MILITARY BURNER MODEL 527



A. TO SET-UP BURNER UNIT

Turn Stand Bracket to give a greater base area.

B. TO FILL

See that Burner Unit is level to prevent overfilling.

Be sure Fuel Valve is tightly closed. Turn the Fuel Control Valve to the right, using Wrench Key.

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

Do not tip Burner Unit while filling. Always set it flat on its base. We suggest the use of the Filtering Funnel for straining the gasoline.

As soon as Tank is filled, replace Filler Plug and tighten firmly, using square hole in Wrench Key.

Be sure the Burner Unit is level when pumping

to avoid drawing gasoline into Pump.

See that Fuel Valve is closed, then turn Pump Handle to left two turns. Hold thumb over Vent Hole in end of Pump Handle and pump 15 to 20 full strokes of air into the Tank. Turn Pump Handle to right to close. Additional pressure should be added later while Burner is generating. Keep Pump Leather soft with a few drops of oil.

D. TO LIGHT

First-Clean Gas Tip in Vaporizer by revolving, several times, the Cleaner Needle Lever located above the Valve. Stop Lever in DOWN position.

Second—Be sure the Burner Unit is level to prevent flooding of Burner during lighting operation. Open Fuel Control Valve a quarter turn to left. Apply lighted match at top of Burner Head. In extremely low temperatures allow Burner Head to become moist with gasoline before applying lighted match. 5 to 10 minutes are required for complete generation. Under some conditions flame may blow itself out. Just re-light. Flame will soon settle down to steady blue.

Apply several additional strokes with Pump to replace air used in generation.

Third-After flame burns steady blue for 2 or 3 minutes, open Fuel Control Valve AS FAR AS POSSIBLE.

E. TO SHUT OFF BURNER

lose Fuel Control Valve.

Note: Any open burner should never be used in a confined space without ventilation, especially when leaded gasoline is used as fuel.

SERVICE OF MAINTENANCE

VAPORIZER ASSEMBLY

When hydro-carbon fuel (gasoline) is vaporized and burned, a residue in the form of carbon is produced from the gum content of the fuel.

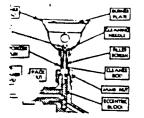
If anti-knock compounds are added to gasoline to improve the operating efficiency of motorized equipment, the resulting fuel will, when used in gasoline pressure appliances, form a residue of both carbon and lead in the Vaporizer. It can be readily understood, therefore, that anti-knock compounds added to gasoline containing gum will form varying amounts of residue in direct proportion to the gum content and the amount of anti-knock compounds added.

When Burners are kept in continuous operation from fifteen to twenty hours daily, using fuel having a heavy gum content and high percentage of lead, naturally it will be necessary to clean or replace Vaporizers every two to five days.

Vaporizers on Burners used only a few hours daily will require cleaning or replacement only at intervals of a month to six weeks.

When anti-knock gasoline is used, the average time a Vaporizer can be used without cleaning or replacement is fifty to one-hundred hours-depending on gum and lead content of the fuel. The use of Regular (unleaded) gasoline having a normal gum content, will substantially increase Vaporizer life.

If an accumulation of residue is built up in the Vaporizer Tube, flame strength on the Burner will be noticeably decreased. When an efficient flame can no longer be maintained, it is usually an indication that the Vaporizer Tube is clogged and requires either cleaning or replacement.



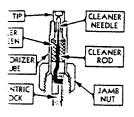
Remove the Burner Head by unscrewing to the left. Turn Tip Cleaner Lever up. Unscrew Jamb Nut at lower

end of Vaporizer. Lift Vaporizer and Cleaner Rod

d Needle off by unhooking Cleaning Needle from centric Block.

nen loosening the Jamb Nut at the base of the porizer, hold the Valve Body so that it will not sprung or twisted out of position.

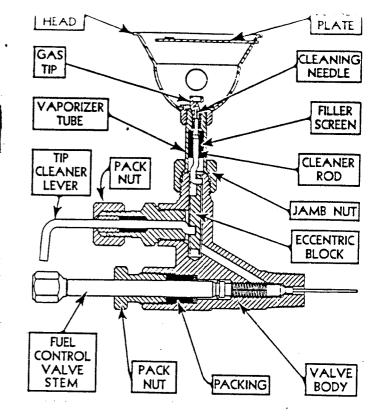
CLEAN VAPORIZER



Remove Filler Screen and scrape all carbon from inside of Vaporizer. Do not force anything through Gas Tip hole as this would increase size of opening. If

ew Filler Screen is available, insert in Vapor-Tube; however, old screen may be cleaned and sed if care is used in unrolling and re-rolling. een must be rolled tightly around Cleaner Rod ore being put back into Vaporizer to insure proper

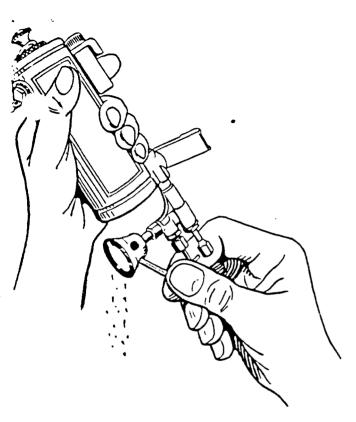
e must be taken not to damage the Needle when ssembling Vaporizer over the Needle.



TO REPLACE VAPORIZER

To install new Vaporizer with Cleaner Rod and Needle—

First, pull Cleaner Rod down out of Vaporizer about 1/8" and hook in hole of Eccentric Block. Now turn Tip Cleaner Lever down, seat Vaporizer properly. Screw Jamb Nut down, tightening with Wrench Key.



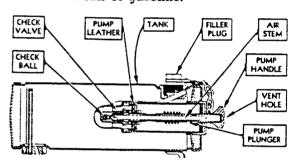
EEP BURNER PLATE CLEAN

IS IMPORTANT that the underside of the Burner ate be cleaned frequently or every few days. Eilure to do this regularly will reduce the efficiency the Burner.

ser, a sharp stick or wire through the holes in the de of the Burner Head to clean or scrape carbon cumulations off the underside of the Burner Plate.

Q. Pump does not operate properly.

A. (1) Before attempting to apply pressure to the Tank open Pump Assembly by turning a few turns to the left. Hold thumb or palm of hand over Vent Hole in end of Pump Plunger. Gasoline will be drawn into Pump Barrel if Burner Unit is not in level position while applying pressure; or, Tank too full of gasoline.



(2) Pump Leather dried out. Remove Pump Plunger and work lubricating oil into leather, or replace if leather is worn out.

(3) Check Ball stuck. Remove Check Valve and clean. Replace if Check Ball does not work freely

after cleaning.

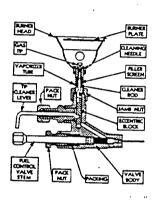


Q. Will not hold air when Pump Plunger is in OFF position.

A. (1) Threads on Air Stem and Check Valve worn out. Replace.

Q. Leak at Stem Pack Nut.

A. Tighten Pack Nut a few turns to hold packing in firm contact with Valve Stem. Note: If Pack Nut is drawn up too tightly, Valve will not turn. Back off slightly. Replace packing if leak is not stopped by tightening Pack Nut.



- Q. Leak at Pack Nut on Tip Cleaner Assembly.
 - A. Tighten Pack Nut a few turns to hold packing in firm contact with stem. Note: If Pack Nut is drawn up too tightly, lever will not turn. Back off slightly. Replace if leak is not stopped by tightening Pack Nut.

Q. Tip Cleaner Lever will not turn.

- A. Continuous use of fuel having a high gum and anti-knock compound content will cause an accumulation of carbon on Eccentric Block, causing it to "freeze" in the valve assembly. Remove and clean or replace.
- Q. Tip Cleaning Needle does not work.
 - A. (1) Needle broken off. Replace.
 - (2) Tip Cleaning mechanism worn out. Re-

- Q. Burner will not light.
 - A. (1) Out of fuel.
 - (2) Not enough pressure in Tank.
 - (3) Vaporizer Tip clogged. Revolve Tip Cleaner Lever several turns. Be sure Cleaning Lever is in DOWN position when lighting Burner.
 - (4) Vaporizer clogged. Clean or replace.
 - (5) If Burner does not light after checking above suggestions, the Valve complete should be removed and inspected. Replace Valve if gum content of gasoline has clogged Valve Body.
- Q. Burner burns but produces "red, lazy" flame.
 - A. (1) Burner Unit not level during lighting operation.
 - (2) Tank pressure too low. Pump several additional strokes.
 - (3) Vaporizer Needle bent. Replace.
 - (4) Vaporizer almost clogged. Clean as above, or replace.
 - (5) Burner Plate corroded. Insert a sharp stick or wire through the holes in the side of the Burner Head to clean or scrape carbon accumulations off the underside of the Burner Plate. See illustration on page 8.
 - (6) Burner loose on Vaporizer. Tighten.
- Q. Burner backfires and burns with red flashes.
 - A. (1) Burner loose on Vaporizer. Tighten.
 - (2) Burner Plate corroded. Clean as above.

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