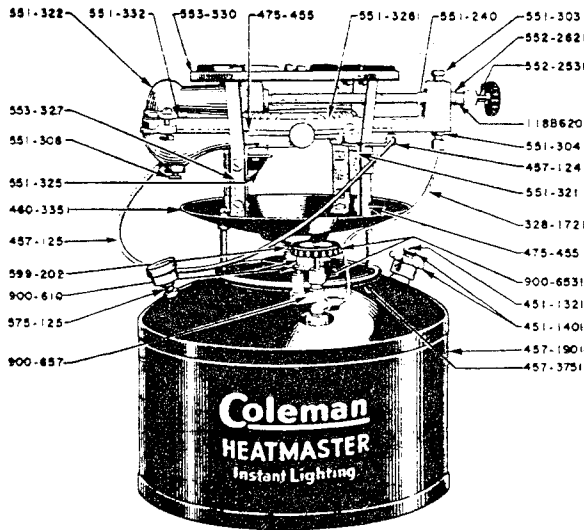


# REPAIR PARTS LIST

COLEMAN HEATMASTER

NO. 457G

(457-195)



Part Number	Nomenclature
118B620	Valve Stem Packing
308-2381	Cleaning Needle and Holder
325-2171	Gas Tip Bushing
325-4181	Gas Tip (Marked "4")
328-1721	Fuel Tube (12" Long)
451-1321	Filler Plug Air Stem
451-1401	Filler Plug Complete
451-5091	Pump Leather
451-5221	Jumbo Pump
457-1241	Bail Bracket
457-125	Bail
457-1901	Tank Complete (Not Available)
457-3751	Support Assembly
460-3351	Baffle and Flange Assembled
475-455	R. H. Machine Screw (10-24x5/8")
551-240	Generator Valve Body and Fuel Nipple
551-303	Set Screw
551-304	Feed Wire Nipple
551-308	Drain Plug
551-321	Leg
551-322	Mixing Chamber - Gaskets and Screws
551-325	Air Intake Adjuster
551-3261	Burner Castings
551-332	Asbestos Gasket
552-212	Generator Tube
552-219	Generator Filler Coil
552-2531	Generator Valve Stem Less Cleaning Needle and Holder
552-2621	Chrome Alloy Generator (Gas Tip Marked "4")
553-327	Grate Bracket
553-330	Grate
575-125	Air Gauge
599-202	Close Nipple 3/8"
650-1361	Filler Plug Gasket
900-118	Fuel Tip (Marked "AX")
900-610	Instant-Gas Valve Safety Lock
900-6531	Instant-Gas Valve Stem Complete
900-657	Instant-Gas Valve Complete
*Not Illustrated	

**NOTE - THIS PARTS LIST OBSOLETE. ONLY PARTS LISTED ON THE ENCLOSED SHEET WITH CURRENT PRICES STILL AVAILABLE FOR OBSOLETE MODEL 457G Handy Gas Plant**

## Special Information

For your convenience we recommend that you always keep an extra generator ready for installation on your Handy Gas Plant, just as you always carry a spare tire on your automobile - for emergency use. Thus you may insure continuous generator service.

## Exceptionally Easy to Change

Merely loosen set screw No. 551-303, remove the carbonized generator and install the extra generator in its place.

This carbonized generator can then be cleaned or taken to your Coleman dealer, at your convenience. He is perhaps equipped to clean and rebuild these generators.

The barrel of this generator is made of a special chrome stainless steel. This material will stand up satisfactorily under intense heat and has a tendency to prevent carbon formation.

The amount of service obtained from a generator depends to a great extent upon the kind and quality of gasoline used.

**"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 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 Operation of the



# HEATMASTER

No. 457G

Always use a good grade of fresh, clean gasoline.

Made in United States of America

**The Coleman Company, Inc.**

General Offices and Factory: WICHITA 1, KANSAS, U. S. A.  
Canadian Office and Factory: Toronto, Canada  
Sales Offices: Philadelphia 40; San Francisco 3; Los Angeles 1

# SAVE THIS SHEET FOR FUTURE REFERENCE

## Directions for Operating Coleman Heatmaster No. 457G

NOTE: Always use a good grade of fresh, clean, non-leaded gasoline. Do not use any of the doped, anti-knock or Ethyl gasolines in this appliance. Ask your service station operator to contact his company in an attempt to secure for you a special stove and lighting fuel or naphtha. Most of the major oil companies have such fuels available.

### 1. Install Generator

The generator is packed separately to avoid damage to it in shipping. Place generator in position through yoke in burner. See that generator seats properly in fuel wire connection. Tighten set screw No. 551-303 sufficiently to prevent a leak at that point. Excessive force will not be necessary and it might damage the seat.

### 2. Filling

CAUTION: Do not fill Tank near an open flame. Always be careful not to spill the fuel.

- See that Instant-Gas Valve and Generator Valve are closed.
- Remove Filler Plug and fill Tank. Use only fresh, clean, non-leaded gasoline or stove and lighting fuel.
- Replace and tighten Filler Plug firmly but do not use excessive force.

### 3. Pumping

CAUTION: Before starting to pump, be sure the Instant-Gas Valve and Generator Valve are closed.

- Open Air Stem No. 451-132 two full turns to left and place nose of Pump in center of Air Stem on Filler Plug.
- Pump 30 to 40 strokes of air into Tank. This should place about 20 or 25 pounds of pressure in Tank.
- Close Air Stem tightly with fingers.

### 4. Lighting

- Open Instant-Gas Valve No. 900-657 one-fourth turn to the left. The safety lock should stop the wheel at that point. Open generator valve stem quickly while

holding a lighted match above the burner. After burner lights control the height of the flame by closing or opening the generator valve stem. Maintain an active flame on the burner rather than a high flaring flame. In approximately one minute the flame on the burner will settle down to a hot blue color. At that time hold the safety lock on the valve down and continue to hold it down while you turn the valve wheel as far as it will go to the left.

- The height of the flame may be regulated by turning the generator valve stem to the right or left. Increasing the amount of pressure in the tank will increase the force or efficiency of the flame accordingly. A pressure of from 10 to 25 pounds is recommended. You may add pressure while stove is burning.

### 5. To Turn The Flame Out

When you are through using your Burner, close the Instant-Gas Valve by turning wheel to right until closed, then immediately open it one-fourth turn to left, to the Safety Lock. Allow the Burner to burn on the Instant-Gas mixture for about one minute. Now close Instant-Gas Valve by turning wheel to the right and when flame on the Burner is nearly out, close the Generator Valve firmly to the right.

### Special Lighting Information

This Coleman Heatmaster is built to accommodate the largest range of unusual conditions of any stove on the market at the present time. However, when used in exceptionally cold temperature we recommend the following method of lighting:

Note the small cup built in the front of the burner (located between the burner cap and the generator nipple). When the temperature is unusually cold it will be best to pour a small amount of alcohol or gasoline into this cup and allow it to burn several seconds before attempting to light the burner on the Instant-Gas principle. The reason for doing this is that when lighting by the Instant-Gas method in exceptionally cold temperature the mixture is too lean and the flame will have a tendency to lift off the burner and the burner may not light. If the few seconds of pre-heating is used the burner becomes warm enough to compensate for the cold temperature.

This method need only be used in extremely low temperature.

### Special Service Information

If you flood the burner while instant-lighting it then close the valve stem at the tank, also the generator valve stem.

Wait until the flame dies down on the burner, then place a cup or pan under the burner drain plug No. 551-308 (located under and at rear of burner). Unscrew drain plug and after safely disposing of the liquid gasoline drained from the burner, start over again and instant-light the burner as directed in paragraph 4.

Fine powdery carbon may sometime form in the generator and when lighting heater or after heater has been in operation for some time this powdery carbon may start collecting in orifice of gas tip. Flame might then almost die down or go out. Closing and opening generator valve stem quickly several times, while at the same time you tap lightly on generator barrel with some light tool may dislodge carbon and force it on through gas tip. Burning carbon will produce yellow specks in the flame.

Keep pack nut on valve stem loose enough for valve stem to turn easily, yet tight enough to prevent a leak at that point.

The Instant-Lighting feature of this appliance is incorporated in the No. 900-657 Instant-Gas Valve. With this Valve one-fourth open a mixture of gasoline and air in the form of a mist or spray will feed through the burner to light instantly. If while instant lighting the burner the flame has too much of a tendency to float away then loosen pack nut on No. 900-653 valve stem. You can then unscrew valve stem and lift it out. Clean any gum or corrosion from needle by scraping with knife blade.

Air regulation is made by changing the position of the flat Air Intake Adjuster Spring No. 551-325, which partly covers the opening in the manifold near where the gas tip end of the generator enters it. Adjustment should only be made while burner is hot. Close spring as much as you can without producing a yellow smoky flame on the burner.

To test for an air pressure leak hold tank under water and watch for the appearance of air bubbles. If leak occurs only while stove is burning then it is perhaps because you have not opened Instant-Gas Valve all the way.

A gas leak near gas tip end of generator may be stopped by tightening gas tip holder, but do not do this while generator is hot.

Keep burner parts clean. Burned match heads or drippings from cooking vessel on burner cap will produce tongues of yellow flame. Use a thin knife blade to open and clean slots in burner cap.

If you store the Handy Gas Plant for any length of time then remove air gauge or valve and drain gasoline out through the bushing. Gasoline left in the tank too long might sour and produce a gum which could increase carbon formation in the generator.