

owners manual

DUETTE COMBINATION RANGE & HEATER FOR RECREATIONAL VEHICLES MODELS 183-60 & 184-60

COMBINATION RANGE & HEATER

FILE FOR
FUTURE
REFERENCE

CAUTION:
Read Rules for
Safe Operation
and instructions
Carefully

- Assembly
- Installation
- Repair Parts
- Operation



WARD & SON, INC.
15343 PROCTOR AVENUE
CITY OF INDUSTRY, CALIFORNIA 91744

instructions

RULES FOR SAFE OPERATION

1. Read the Owners Manual and these Rules for Safe Operation carefully.
2. Check that all applicable state and local codes regarding installation have been followed. The supplier of the propane gas is usually an expert in this regard.
3. Check that minimum clearances to combustible materials have been maintained.
4. When igniting the burners, have lighted match ready when the burners are turned on, if not equipped with lighters.
5. Never light matches in the vicinity if the odors of gas are noted.
6. A window or other air vent should be opened slightly while using the range counter unit. Gas burner flames consume oxygen which has to be replaced to assure proper combustion.
7. Do not tamper with the burner orifices or change their size.

GENERAL

1. Your Combination Range & Heater has been Certified for Performance and safety by the Underwriters Laboratory for use with liquefied petroleum gases only.
2. Burner inputs are shown on a plate attached to each unit. Refer to this plate for ratings and minimum clearances. The orifices have been sized at the factory at a pressure of 11 inches water column (6-1/2 ounces approximately) for liquefied petroleum gases.

ASSEMBLY

This appliance comes to you fully assembled with the exception of the burner grates, grate clip holdowns and outside vent assembly. These will be installed after the unit is placed in the cabinet.

INSTALLATION

1. Consider the following when selecting the location your combination unit.

- A. Location of gas supply and routing of gas line.
- B. Minimum clearances of unit from combustible materials. These clearances are:

MODEL 183-60

Sides - 6 inches minimum as measured from center of closest burner head.

Rear - 8 inches minimum as measured from center of closest burner head.

Top - 24 inches minimum as measured from top of unit to bottom of any overhanging cabinet or shelf.

MODEL 184-60

Sides - 7 inches minimum as measured from center of closest burner head.

Rear - 8 inches minimum as measured from cen-

ter of closest burner head.

Top - 24 inches minimum as measured from top of unit to bottom of any overhanging cabinet of shelf.

2. After selecting the best location, cut opening in countertop and outside wall as shown in the installation instructions.
3. Install gas supply and route gas line (not furnished) to unit. Here you should seek the assistance of a qualified service man. Usually the supplier of the gas will be able to provide expert help in this respect. Too, he will be able to provide the necessary parts, including the copper gas line.

The following information should be carefully considered during installation.

A. The gas tank must be located in a protected place and cannot UNDER ANY CIRCUMSTANCES be located within the confines of the trailer or camper. The supplier of the gas will be acquainted with the applicable codes with respect to the location of the gas supply tank.

B. Gas supply line should be copper and should be routed in protected locations so as not to be damaged. A single, continuous line is recommended.

C. No connections should be made in the gas line where the connections would be concealed after completion of the installation. All parts used in making connections must be of type acceptable for this purpose. Gas line should not make any sharp bends nor have any kinks. The line should not be under strain.

D. Install a manual shutoff valve in an accessible location in the gas supply line external to the range for the purpose of turning the gas on and off during servicing.

4. Remove burner knobs, and main top assembly, this will expose gas manifold on unit.
5. Make electrical connections (12 Volts D.C. only) to the unit in back.

NOTE: This unit is equipped with a protective circuit device which will make the blower inoperable if the positive (-) wire (red in color) is not connected to the positive side of the vehicle electrical circuit.

6. Place unit in installation area.
7. Secure in place with 4 No. 8 wood screws indicated as item "A" in cabinet cutout drawing.
8. Apply perma-gum to flanges of the Flue Box assembly (item A) and install in cutout. Secure with screws thru holes provided in flanges.
9. Install flue cap assembly (item B) by sliding it into mating pipe.

NOTE: "Top" is stamped on front of cap and flue box and must be up.

Install Flue Box cover (item C) with screws through holes provided.

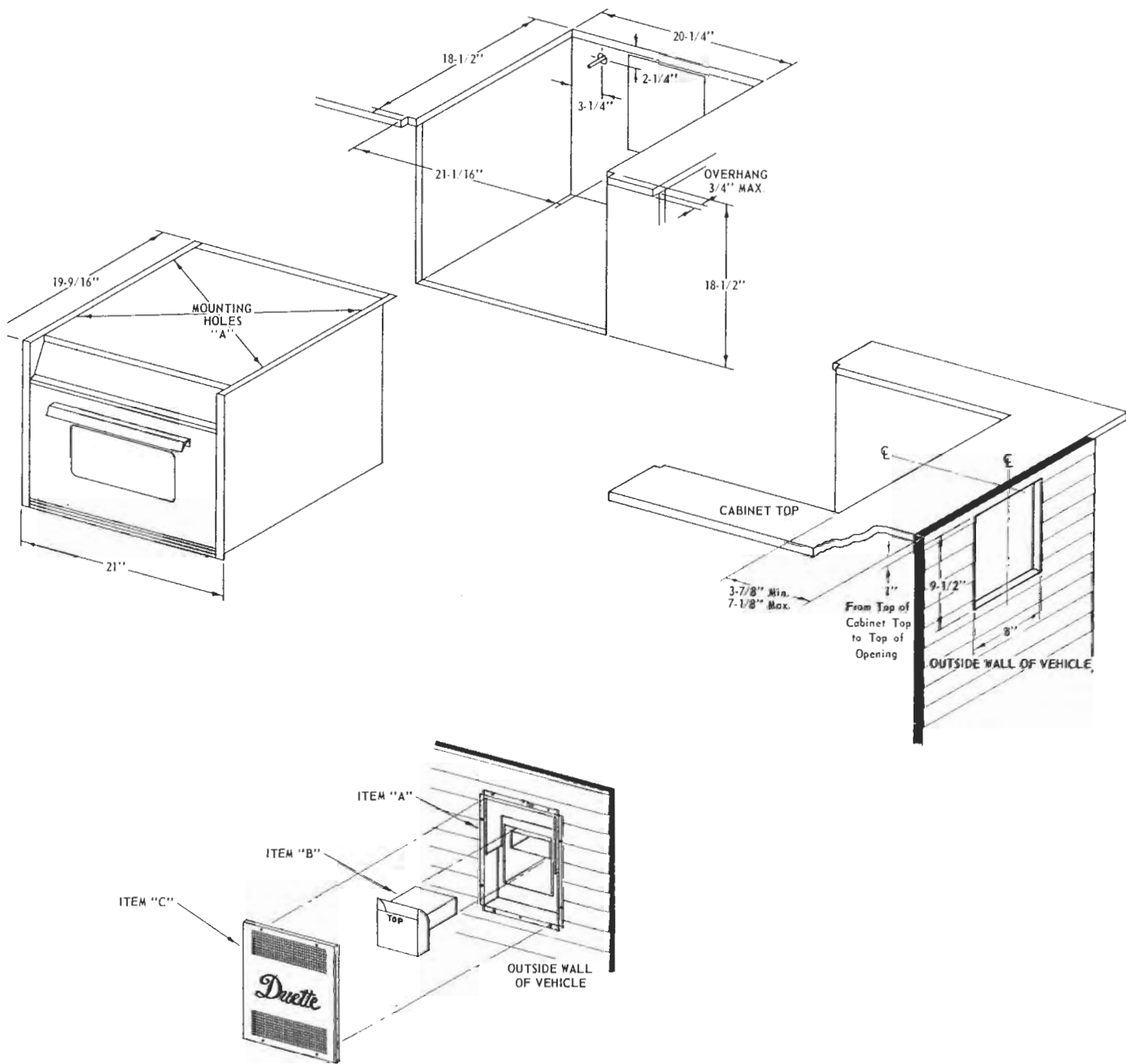
Make gas connection.

After installing the gas supply, check thoroughly for possible gas leaks. Turn the valves on your unit to their "off" positions. Open valve on gas supply tank. Using a soap and water solution, check each gas connection one-at-a-time by brushing the soap and water solution over the connection. Presence of bubbles will indicate a leak. Tighten fitting and recheck for leaks. If impossible to correct leak, re-

place fitting. UNDER NO CIRCUMSTANCES USE MATCHES OR FLAME FOR CHECKING LEAKS.

13. Slide main top assembly in place. Push burner knobs on to valve stems. Place burner grates in place with the clips provided. Instructions are provided on the envelope in which the clips are shipped. These grate clips will hold the grate in place while traveling.

14. Your Combination Range and Heater is now ready for use.



operating instructions

LIGHTING INSTRUCTIONS

OVEN AND HEATER PILOT

1. Turn the oven control knob to the "OFF" position.
2. Open the oven door and press the pilot button (located on the front right side of the oven) for approximately one minute to allow the gas to reach the pilot.
3. Continue to hold the button and light the constant pilot. Keep the button depressed for 90 seconds after the pilot is lighted.
4. Close the oven door and turn the oven control to the desired temperature setting. The main burner will come on in approximately one minute.

NOTE: There may be air in the heater pilot line which when turned on for the first time may extinguish the constant pilot. Be sure to check that pilots are burning after oven has been on approximately one minute.

5. If pilot goes out - turn the oven control to the "OFF" position and wait 5 minutes - repeat above procedure.

NOTE: Oven door must be closed before main burner will come on.

Sometimes the burners will not ignite immediately and seem to "blow" slightly when they do ignite. This is usually due to the presence of air in the gas lines which will clear itself within seconds.

TOP BURNER PILOT

If the range is equipped with a pilot, it is not necessary to lift top to light. Turn Thermostat dial to "OFF" position and light any 2 top burners.

OPERATING INSTRUCTIONS

To operate the unit as a range only - be certain that the heater off-on indicator is in the "OFF" position. The unit now is to be operated as you would with any trailer range.

For heater operation - remove the broiler pan from the

broiler compartment and store in a convenient location. Turn the heater off-on indicator to the "ON" position and then turn the oven thermostat to the 250° setting.

The blower will automatically come on in approximately 3 1/2 Minutes or when the inside of the oven is hot.

For heating comfort the oven thermostat can be adjusted to any setting between the range of 250° to broil.

Recommended settings are:

1. Low - 250°
2. Medium - 350°
3. High - Broil

During the time the unit is in use, a safety system is in operation. This system turns the oven burner off when the oven door is opened. This unit was designed this way to prevent the burner from using the air from the inside of the trailer or camper.

Upon closing of the oven door, the burner will automatically come on in approximately 20 seconds.

Due to the construction of this unit, it is quite practical to operate the heater, top burners and the oven simultaneously.

In the event the blower should cease to function even though oven is at operating temperature - check the following:

1. Be certain that the heater on-off indicator is in the "ON" position.
2. This unit is equipped with a circuit breaker that may be energized due to an overload. This circuit breaker is located behind the heater on-off indicator. To reset manually, simply remove this knob from the control panel and depress the red re-set button which is located to the left of the on-off switch.
3. Check electrical connections to power source.

3 YEAR WARRANTY

TRAV'LER IS THE ONLY RECREATIONAL VEHICLE RANGE OR COOKTOP TO CARRY

A FULL 3 YEAR WARRANTY ON PARTS

1. This unit is manufactured and tested under our most exacting conditions to promote long life and trouble-free use.
2. Ward & Son warrants to the original owner, any part of this unit which proves defective in workmanship or material, will be replaced or repaired without charge for a period of 3 years from original date of purchase (not including labor charges after 90 days).
3. Our obligation is limited to exchange at our plant or nearest office any part or parts within the warranty period.
4. This warranty does not cover the porcelain enamel, or any damage done to the unit, or resulting from misuse, abuse or accidents.
5. This warranty is conclusive and supercedes any other warranties expressed or implied.

WARD & SON, INC.