

# MCC/MDS Kitchen Trailer Manual

## Specifications

**Make:** Royal Trailer  
**License No:** V890-49  
**GVW:** 11,363 kg (25,000 lbs)  
**Actual Weight with propane tank filled to 70%:** 6,880 kg (15,140 lbs)  
**Hitch Weight:** 1,090 kg (2,400 lbs)  
**Generator Weight:** 200 kg (435 lbs)  
**Highway Clearance:** 12'6" (150")  
**Actual Height (to top of exhaust fan housing):** 11'10" (142")  
**Propane Tank Capacity:** 385 L (400 lbs)  
**Towing Vehicle:** 1-Ton truck (Duels preferred)  
**Hitch Size:** 2 7/16" (Receiver for 2" slide-in hitch with trailer)  
**Maximum Towing Speed:** 100 Kph

## Trailer Set up (Arrival)

1. Find a level location to park trailer.
2. Unhook and level trailer.
3. Crank down corner stabilizers.
4. Set up awning: Use awning rod to flick lever to unlock awning. Loosen awning brace knob at each end. Use awning rod to pull out strap (awning). Slide braces out at each end to full extension. Tighten knob. Extend slider to desired height. Store awning rod under water heater.
5. Set up ramp.
6. Pull out generator carefully. (Requires at least two people.)
7. Turn on main gas valve. (Be aware that pilots begin to emit gas immediately.)
8. Light all griddle and stove-top pilot lights. See Range section for procedures.
9. Connect trailer power cable to generator or permanent power source.
10. Install trailer hitch lock.
11. If using generator, secure with cable and padlock.

## Transporting Trailer (Departure)

**Important: No less than a one-ton truck is required to pull the trailer.**

1. Ensure main gas valve at tank is shut off.
2. Drain grey water tank in an appropriate location.
3. Ensure all cables are wrapped up and secure.
4. Ensure lock-down bolt for hitch is in place.
5. Ensure corner stabilizers are cranked up all the way. Store cranks under water heater.
6. Ensure awning is stowed and that awning and trailer doors are locked.
7. Make sure that blocking is placed in the front and rear cooler door tracks and that freezer doors are locked. Leave freezer keys in the locks at all times.

**Important: Moving generator into the trailer requires at least three people.**

8. Roll generator into the trailer and secure to the floor. See Generator section for procedure.
9. Check tire pressure.
10. Remove wheel chucks.
11. Check trailer lights, signal lights, brake lights and brakes.

**Important: Do not exceed 100 Kph when driving is smooth. When roads become rough, decrease speed.**

## Basic Maintenance

### Usage Log

- The kitchen trailer usage log must be filled out for every location/disaster site it is put into use for.
- Include mileage, days/dates used, meals served (approx.), and user group.

### Wheel Bearings

Ensure that regular maintenance is performed on wheel bearings.

### Propane Safety

- Always have the propane bottle valve shut for transportation.
- Make sure that the controls for both stoves are in the Off position before opening the propane bottle valve.
- To operate the stove and grill burners, open the propane bottle valve, then light the pilot lights for the stove burners and the grill burners.
- Be aware that the stove top burners and the grill burners DO NOT have a control valve to cut off the propane if the pilot lights go out. Whereas both ovens and the deep fat fryers do have safety valves so that the propane is shut off when the pilot light goes out.

### Ventilation

- The exhaust fan must be turned on when the cookware is in use, as it also serves as the chimney for the cookware. The make up air louver will open when the fan is turned on.

**Important: Failure to turn on the exhaust fan when the cookware is in use will cause lethal fumes to build up in the kitchen.**

### Water Storage

- Close all of the sink taps and the valve to the water tank before turning on the water.
- Potable water can be connected with a garden hose to a hose bib at the trailer's rear wall.
- If municipal water is available do not fill the fresh water tank, rather use the incoming water pressure. If a hook up to a municipal water pressure is not available, fill the fresh water tank and plug in the RV water pump. Hot water is supplied by the inline gas water heater.

### Grey Water

- Grey Water is collected in the aluminum tank below the sinks. It can be drained into the municipal sewage system with a hose or it can be carried to a drain in 4-gallon pails.

**Important: DO NOT drain oil or grease into the waste water tank.**

## Frost Prevention

- The kitchen must be heated and kept free of frost. If this is not possible, the water system must be COMPLETELY DRAINED to prevent damage. However, the RV pump CANNOT be drained; it is easily removed and should be kept in a frost-free area.

**Important: Always drain the water lines, tanks, and remove the pump and extinguishers if the trailer is going to be in a freezing environment.**

- “Wet” fire extinguishers must be kept above freezing temperature. The canister below the fire suppression system can be disconnected, however it must be recharged by a qualified technician before the cookware is used again.

## Fire Suppression System

The current MCC Relief Sale Committee is to ensure the fire suppression system and the fire extinguisher are inspected once a year.

## Electricity

- The kitchen is wired for 120 Volt current and can be connected to a regular power source.
- It requires up to 75 amps when in full use.

## Generator

The gasoline powered Honda generator will supply power if municipal power is not available. It is capable of running all built-in trailer equipment, however the counter plug load has not been tested.

## Using the Generator

**Important: Always use at least two people to roll generator down ramp.**

1. Be sure to secure the generator with cable and padlock immediately after putting it into position on the ground.

**Important: It is recommended that all trailer equipment is turned off before activating power to the trailer.**

2. Always check oil level before using. Do not run without adequate oil.
3. Ensure breaker is **Off**. Ensure Engine Switch is **On**. Ensure yellow gas valve is **On**. Ensure Auto Throttle switch is **On**.
4. Pull out choke valve.
5. Start engine with key.
6. Push in choke once engine is running.
7. Insert twist-lock power cable.
8. Turn on breaker.
9. The generator should be run continuously through the night if there are perishable items in the cooler/freezer. If this is the case, always fill the generator with fuel before closing for the night to ensure the longest possible supply of power to the cooler/freezer. Make sure only the cooler/freezer are running at night in order to maximize running time.

**Note: The generator will run for approximately 4 hours on a full tank of gas.**

## Transporting Generator

1. Turn off breaker.
2. Turn key to **Off**.
3. Close yellow fuel valve.
4. Remove padlock and cable.
5. Use three people to roll generator up ramp and into the trailer.
6. Secure generator to floor anchors with two ratchet tie-downs. Always wrap the non-ratchet end of each tie-down strap around the generator frame two times before anchoring.

## Cooler

### Preparing for Use

- Run the cooler for three to four hours before stocking, to allow it to first reach the proper temperature.
- If power to the cooler is disrupted after it has been started, allow the unit to remain off for at least two minutes before attempting to restart it, in order to allow the internal pressures time to stabilize.
- Failure to allow this stylization will cause excessive stress on the compressor and may result in premature failure.

**Note: The controller has a 2-minute delay that will not start controlling the case until two minutes after power-up. This delay is confirmed by the LED on the front of the case flashing while the display shows the case temperature.**

**Note: Setting the digital control down to its lowest position (coldest) could cause icing of the cooling coil, which will significantly reduce refrigeration capacity and performance.**

**Important: DO NOT place boxes or other objects on top of the cooler. This will restrict air circulation at the top of the unit.**

### Cleaning

- No abrasive cleaners should EVER be used to clean the interior, exterior or glass surfaces of the unit.
- To clean doors, use soft rags or paper towel along with an ammonia-based cleaner. For glass doors, be careful not to scratch the glass surface. When cleaning hinged doors, be careful not to damage the door gasket as this can lead to air infiltration and decreased performance.
- While hinged doors do not require removal for cleaning, sliding doors must be lifted and removed from the bottom track to allow for cleaning these tracks. Use the same material and detergent as was used for the inside of the case.

### Preparing For Travel

Ensure the wooden blocks are placed in the front and rear glass door tracks.

## Freezer

### Preparing for Use

- Run the cooler for three to four hours before stocking, to allow it to first reach the proper temperature.
- If power to the cooler is disrupted after it has been started, allow the unit to remain off for at least two minutes before attempting to restart it, in order to allow the internal pressures time to stabilize.
- Failure to allow this stylization will cause excessive stress on the compressor and may result in premature failure.

**Note: The controller has a 2-minute delay that will not start controlling the case until two minutes after power-up. This delay is confirmed by the LED on the front of the case flashing while the display shows the case temperature.**

### Defrosting

- Defrosting the unit is automatic. The freezer, cooling coil will defrost every 8 hours by an electric heater. The starting time and length of defrost is controlled by the controller on the front of the case. When the unit is defrosting the controller will show “Def” on the display.

**Note: If the unit is run in a warm environment and the door is left open the unit may run continuously and completely freeze up the cooling coil. It should also be noted that there is very little cooling taking place even though the machine is running.**

### Initial Use

- The freezer should be wiped free of any dirt and debris that may have accumulated during shipping and/or installation. This may be done following the cleaning procedures outlined above.
- After the unit has been cleaned, it should be thoroughly hand dried and left open to completely remove any water from the interior prior to starting the unit.

### Cleaning

- No abrasive cleaners should EVER be used to clean the interior, exterior or glass surfaces of the unit.
- To clean doors, use soft rags or paper towel along with an ammonia-based cleaner. For stainless steel doors, be careful not to scratch the glass surface.

**Caution: Using an abrasive cleaner and brush could scratch the finish and will cause the build-up of rust, and will allow hazardous materials to accumulate on the shelving.**

## Range

### Lighting Oven Pilots

When turning the main gas supply on after the gas supply has been shut off, do the following:

1. Make sure all of the control valves are in the “OFF” position.
2. Turn on the gas supply.
3. Light the pilots as described below, lighting oven first and then waiting six minutes before lighting top section. This allows all air to be purged from the range.

## Lighting Oven-Top Pilots

Each burner is controlled by a knob on the front control panel.

1. Turn all burner control knobs to the **OFF** position.
2. Ensure pilot valve is open.
3. Check to make sure pilots are in position for allowing for best access with the flame.
4. Light the pilots. For the griddle: There is a pilot light on each side of every dial, some of which are visible and some of which are not. Be very careful not to release large amounts of gas when attempting to light griddle pilots.
5. Adjust the pilot flame as necessary.

## Using Burners and Griddle

1. Ensure the range hood exhaust fan is on at all times while using burners/griddle or range. The fan switch is located to the right of the range.
2. When turning on the griddle burners, make sure the burner flame has actually ignited. If the pilot light for a given burner has gone out and that burner control dial is turned on, dangerous amounts of gas can build up under the griddle.

## Air Conditioner

### Cleaning Air Filters

The air filters in the air conditioner should be periodically cleaned.

1. Remove both filters by pulling them out of the narrow, fan-side of the unit.
2. Wash away dust from the filters with clean water or vacuum the filters with an electric household vacuum cleaner.

## Water System

The trailer's internal water system can be run off the tank or from a municipal water source.

**Important: DO NOT allow oil or grease to drain through the sinks.**

There are a number of valves within the system that must be switched to specific positions for preparing and using the water system.

- To use **municipal water**: Open valve A. Ensure all other valves are closed.
- To **fill** the water tank: Close valve E. Ensure all other valves are open.
- To **use** water tank: Close valves C and E. Ensure all other valves are open.
- To **drain** water tank: Close valves C, B and A. Open valves D,E and F. Go outside the trailer and pull out the drain switch located by the drain pipe.

## Water Heater

- Ensure all valves are open.
- Water temperature can be adjusted by the controller on the side wall.

**Note: The factory default temperature is recommended. See the water heater manual for more detailed information.**



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## **Troubleshooting**

For troubleshooting information for most appliances, refer to the manufacturer's manuals located in the wall rack at the rear door.