

ENGEL

DUAL VOLTAGE REFRIGERATOR

120 VOLTS A.C. & 12/24 VOLTS D.C.

MODELS
MT80F-U1 (80 QUARTS)

OWNER'S GUIDE

MODEL NO. **MT80F-U1-S**

SERIAL NO. **KTT-5010**

SAWAFUJI ELECTRIC CO.,LTD

This appliance has been designed for refrigerating purposes and is operable on both A.C. and D.C. power supplies.

The model and serial number may be found in the compressor cover near the portable handle location.

Before using your unit, record and retain the model and serial number for future reference and warranty purposes.

GENERAL

Your ENGEL Portable Fridge should be placed on a level and solid surface. The compressor is shock mounted for in transit operation.

Be sure your refrigerator is not in direct sunlight, near a gas stove, heater or other heat-generating appliances. Provide adequate ventilation for your refrigerator by keeping it at least 6 inches away from solid walls. This will result in maximum cooling efficiency and minimum electric current consumption. Avoid placing it in an area in which it may be accidentally splashed or sprayed with water or other substance that might enter the electrical compartment. Your refrigerator has been thoroughly cleaned before shipment from the factory. It is advisable, however, to clean the interior once more before use.

Clean the interior with a cloth moistened in warm water and wipe with a dry cloth.

After cleaning, replace interior components.

CAUTION

1. Never store gasoline or other flammable vapors and liquids in or near your refrigerator as these could cause an explosion.
2. Do not touch the evaporator or other metal parts inside the cabinet with a wet hand. Sometimes, it may cause frostbite to the hand.
3. Do not remove or modify any of the product's electrical components.

INSTALLING HANDLES

Lifting handles are furnished with all models (packed inside refrigerator).

They are to be installed using the screws and tapped holes provided.

CONNECTING TO POWER SOURCE

120 VOLTS A.C. OPERATION IN YOUR HOME;

Your refrigerator needs so little power that it may be connected to any A.C. receptacle in your home. To do this, set the thermostat control knob to "OFF" and insert the square plug of the A.C. cord in the connector on the Refrigerator and the standard plug in a wall socket in your home.

12/24 VOLTS D.C. OPERATION IN YOUR FOUR WHEEL DRIVE, CAR, BOAT, TRAILER, CAMPER ETC.

Battery voltage varies with the type of car you own. Most American cars and boats use a 12 volt system. Your refrigerator needs either a 12 volt or a 24 volt battery with a negative ground.

CONNECTION TO 12/24 VOLT Battery.

Set the thermostat control knob to "OFF" and insert one end of the D.C. cord (provided with the refrigerator) into the connector of the refrigerator and connect two wires from the battery to the other end of the D.C. cord.

IMPORTANT:

NEVER USE WIRING LESS THAN AWG#14 BETWEEN BATTERY AND REFRIGERATOR.

INSTALL A 15Amp. GLASS TUBE FUSE IN THE DC INPUT CORD.

BE SURE THE POWER SUPPLY POLARITY IS CORRECT.

In the event that the green refrigerator light fails to glow inspect the power source for proper voltage and correct polarity. The inner contact point of the DC power source adapter must be positive and the outer contact negative (ground).

CONNECT REFRIGERATOR DIRECTLY TO THE BATTERY TO REDUCE RADIO NOISE INTERFERENCE,

Reducing radio noise interference can be accomplished by twisting the power supply wires together and attaching them directly to the battery, adding a fuse (15A) near the positive battery connection. Avoid splicing other devices into this circuit as interference may occur.

QUICK CHARGING THE BATTERY.

When "quick" charging the battery (5AMP or more charging rate) it is important to turn off the refrigerator to avoid damaging the internal refrigerator power supply.

OPERATING YOUR REFRIGERATOR USING A PORTABLE GENERATOR UNIT.

The internal refrigerator power supply unit may be damaged if powered by a generator unit. Please contact ENGEL dealer for additional instruction on safe use when powering your refrigerator with a portable generator unit.

MAINTENANCE OF YOUR BATTERY IS IMPORTANT

1. **MAINTENANCE OF THE BATTERY IS IMPORTANT.** If your battery is not properly charged a decline in the cooling performance of your refrigerator can be expected.
2. **NEVER USE A BATTERY CHARGER, A.C./D.C. CONVERTER, OR RECTIFIER ETC. IN LIEU OF A BATTERY.** These electrical supplies generate high ripples or surge voltages which could result in inverter trouble.
3. **NEVER USE A COMMERCIAL INVERTER OR CONVERTER** for operating your refrigerator on A.C. since these devices do not hold the required constant frequency.

OPERATION

To start your refrigerator, set the thermostat control knob to "ON". Now your refrigerator has started operation.

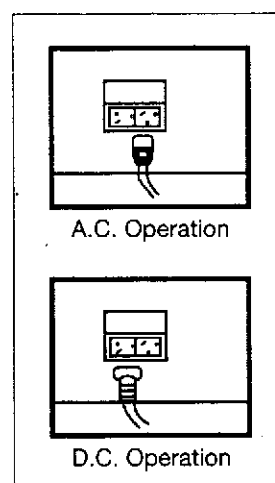
PROTECTION SYSTEM

The D.C. power cord is made for negative (-) ground system. Your refrigerator has a high current protection system incorporated in the electronic circuit to prevent damage to the inverter which may occur due to a reverse connection.

If your refrigerator dose not operate and the power lamp dose not go on, you may have :

- connected the refrigerator with the incorrect polarity
- blown a fuse in the cigarette lighter plug
- have insufficient voltage from the power source

or - a problem may exist in the inverter, so call ENGEL dealer for advice.



CAUTION

The use of an Extension cord is not recommended.

DIAL SETTING

Refrigerating temperature can be controlled by means of the thermostat control knob.

The interior temperature drops as the knob position is changed from "1" ("REF") to "5" ("FREEZE"). In this way, interior temperature can be regulated freely.

When it is desired to preserve frozen food, set the thermostat control knob at "5" ("FREEZE").

To switch off your refrigerator, set the thermostat control knob to "OFF". The knob dose not turn clockwise beyond "5" ("FREEZE"). For efficient operation, regulate the temperature according to the types of food stored.

STORING FOOD IN THE REFRIGERATOR

The following simple instructions on storage of food in the refrigerator will enable you get the best results when using your ENGEL PORTABLE FRIDGE, To prevent the drying out and transfer of odors from one food to another, foods should always be stored in covered dishes, plastic bags, or wrapped in foil or wax paper.

FROZEN FOOD

An ordinary packet of frozen food can be stored, in the freezing compartment for several days with the thermostat set to "5".

If frozen food is allowed to thaw, under no circumstances should you attempt to refreeze it.

DEFROSTING

Set the thermostat control knob to "OFF". When frost is melted, wipe down the interior of your refrigerator with a soft, dry cloth.

MAINTENANCE FOR YOUR REFRIGERATOR

CLEANING BOX AND DOOR:

Wipe with a soft, dry cloth. To remove dirt, use a cloth moistened by a warm neutral detergent solution. Never use hot water. After cleaning, wipe with a dry cloth.

GASKET (door cushion):

Wipe away dirt with a soft cloth moistened by a mild detergent. Do not soak the cloth excessively. If water gets inside, the insulating effect may become temporarily impaired.

ATTACHMENTS:

Wash all attachments in soapsuds. Rinse and wipe clean with a dry cloth.

CAUTION: Never use a brush, powder soap, cleanser, acid, benzene, gasoline, or thinner. These tend to leave scratches on the coating.

Temperature Indicator

This digital temperature reading is not an accurate indication of cabinet air temperature and should be used as a guide only.

Display	Explanation
---.°C	Fault in wiring. Temperature unit requires replacement – seek assistance
---.°C	-30°C MAX. or 70°C MIN.