



LIGHT COMMERCIAL MODEL LC-50

INSTALLATION, CARE AND USE MANUAL

The Model LC-50 food waste disposer is designed specifically for light commercial use in applications such as:

- Grocery/convenience stores
- Fast food restaurants
- Office/church kitchens
- Bed and breakfast inns

This manual clearly describes the installation procedure, operating instructions, maintenance instructions, and safety instructions. Following this manual will help you enjoy all the benefits from using food waste disposer in your operation. a

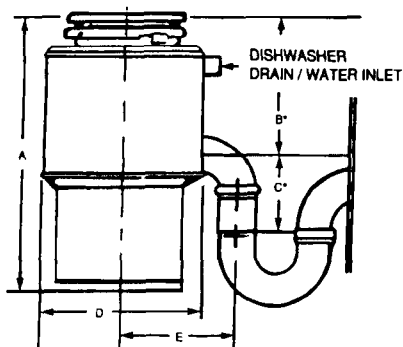
TOOLS AND MATERIALS YOU WILL NEED

- ? Screwdriver
- ? Pipe wrench
- ? Hammer
- ? Plumber's putty (1/4 lb.)
- ? Wire nuts (2 - size 54)

TOOLS AND MATERIALS YOU MAY NEED

- ? Plumber's drain auger or rod
- ? On-off electrical switch (1/2 H.P., 15-20 amps)
- ? Hack saw
- ? Worm gear clamp
- ? Copper wire (12 or 14 gauge)
- ? Connector kit (Part #8301)
- ? Solenoid valve (Part #11475)
- ? Syphon breaker (Part #11477)
- ? Flow control valve (Part #11033D)

INSTALLATION DIMENSIONS



Dimension	A	B*	C*	D	E
Inches	14 9/16	6 13/16	4	8	5%
Cm	37.0	17.3	10.2	20.3	14.6

B* - Distance from bottom of sink to center line of disposer outlet. Add 1/2" when stainless steel sinks are used.

C* - Length of discharge tube from center line of disposer outlet to end of discharge tube.

IMPORTANT: Plumb waste line to prevent standing water in disposer motor housing.

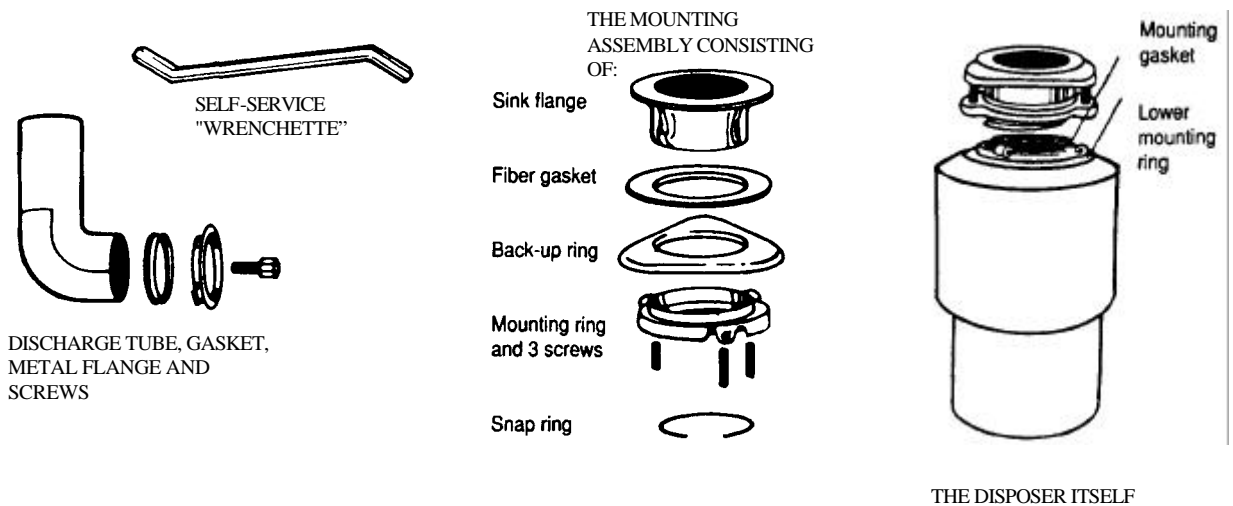
For Service Information Call Toll Free 1-800-558-5712 (U.S.) or 1-414-554-5432 (Canada)



IN-SINK-ERATOR DIVISION
EMERSON ELECTRIC CO.
4700 21st STREET, RACINE, WIS. 53406

1

CHECK THE PARTS AGAINST THE DRAWINGS BELOW AND MAKE SURE EVERYTHING IS THERE

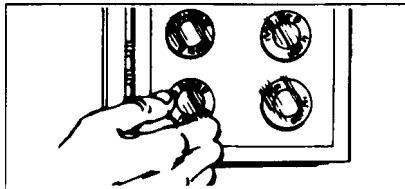


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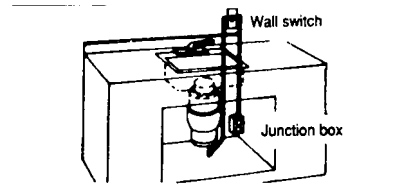
CLEANING YOUR SINK'S DRAIN LINE

We recommend cleaning the line before connecting your new disposer. You can do the job yourself with a drain auger. Remove the drain trap and, using the auger, clean out the horizontal drain pipe that runs from the trap to the main waste pipe. Make certain that the auger removes the hardened material that forms at the intersection of the horizontal pipe and the main waste pipe.

ELECTRICAL SUPPLY



First, remove the fuse or open the circuit breaker on the circuit you plan to use for your disposer. Use a separate 15 or 20 amp, 120 volt circuit for the disposer. If you are replacing a unit, skip to step 4. Next, use 15-20 amp, 120 volt cable to make a connection from the junction box to the on-off switch.



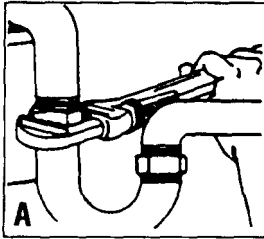
Install a junction box and switch. (Obtain 1/2 H.P., 15-20 amp rated on-off switch and electrical wiring locally.) Position the switch in any convenient location, and connect to junction box. *All wiring must comply with local electrical codes.* 14 gauge size wire is the smallest permissible for use with a 15 amp circuit, and 12 gauge is the smallest permissible for use with a 20 amp circuit.

NOTE: See 10&11 for final electrical connections.

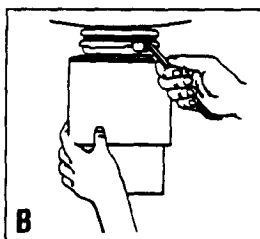
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REPLACING AN OLD DISPOSER

FIRST, TURN OFF ELECTRICAL POWER at the service panel (fuse box or circuit breaker box). If the mounting is the same as your new disposer's mounting, you can use the existing mounting. Follow instructions A, B, D and E, Step 4, then go on to Step 6.



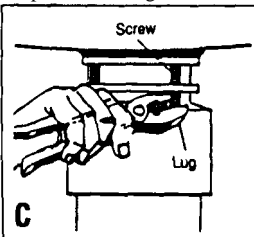
Use a pipe wrench to disconnect the drain line where it attaches to the disposer discharge tube.



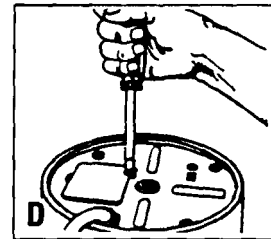
CAUTION: Be sure to hold the disposer with one hand while performing this step or it may fall when the mounting ring is disconnected from the sink mounting assembly. GO TO INSTRUCTION D.

IF YOUR OLD DISPOSER HAS A DIFFERENT MOUNTING THAN YOUR NEW ONE, GO ON TO INSTRUCTION C.

If your old disposer has the same mounting as your new one, insert the end of your "wrenchette" or screwdriver into the right side of one of the disposer mounting ring lugs at the top of the disposer. Then, turn the "wrenchette" or screwdriver to the left (counter-clockwise) until the lug lines up with one of the sink mounting assembly screws.



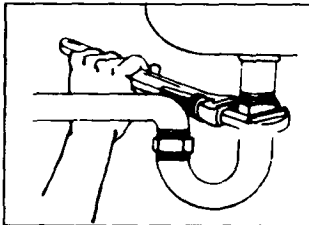
If your old disposer has a different mounting than your new one, use a pliers or adjustable wrench to remove the nuts on the mounting ring. Then remove old disposer. (Some disposers have to be removed by taking off a clamp or by twisting the disposer to remove it from its mounting. Easy to figure out.)



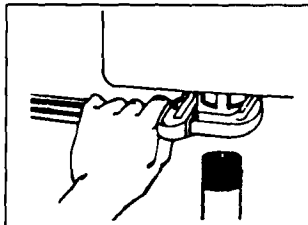
Once the disposer is off, turn it upside down and remove the electrical plate.

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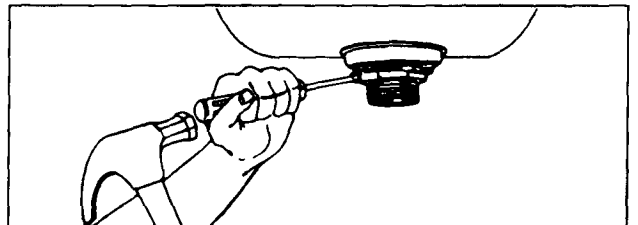
INSTALLING A FIRST-TIME DISPOSER



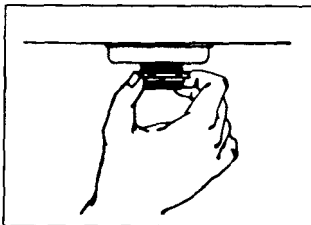
Use a wrench to loosen the nut at the top of the "P"-trap.



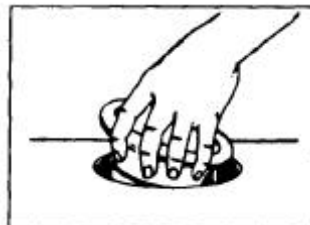
Next, remove the nut at the top of the sink strainer and remove the extension pipe.



Now, remove the large-diameter nut at the base of the strainer by placing the tip of your screwdriver on the edge of the nut. (There are usually ridges to hold your screwdriver.)



The nut should be loosened enough that you can spin it off by hand.

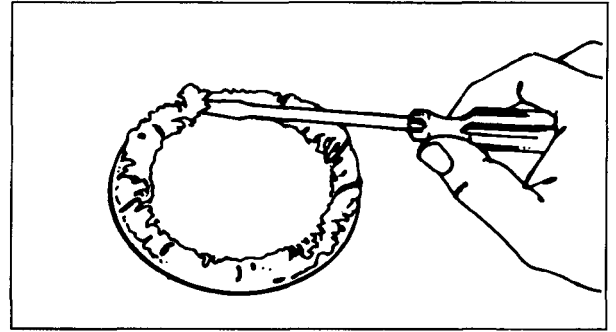


Now, push the strainer assembly up through the sink hole and remove it.

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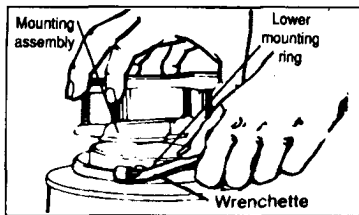
CLEAN THE OLD SEALANT FROM THE RIM OF THE SINK HOLE

Use your screwdriver or a putty knife to scrape away all traces of the old putty or caulking from the edge of the sink drain hole. Make sure you get this as clean as possible so that you'll have a good, water-tight seal for your new disposer sink flange.

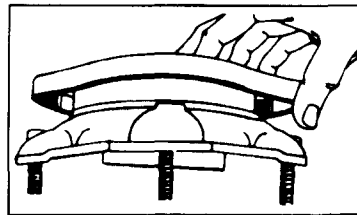


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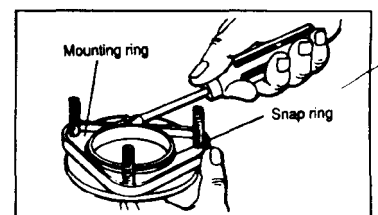
SEPARATE THE PARTS IN THE MOUNTING ASSEMBLY



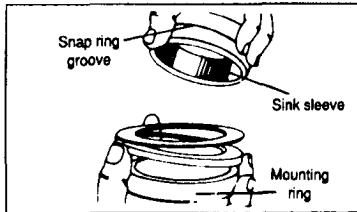
First, remove the mounting assembly from the lower mounting ring. Holding the mounting assembly with one hand, insert your wrenchette or screwdriver into one of the lugs of the lower mounting ring and turn it to the left (counterclockwise) with your other hand.



Then, loosen the screws on the mounting assembly until they are just level with the surface of the mounting ring.



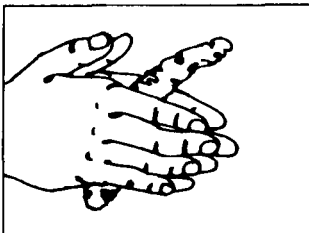
Now, use a screwdriver to pry off the snap ring.



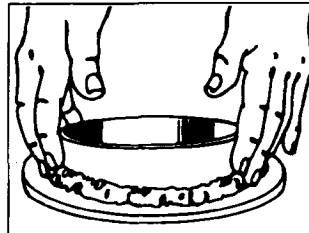
The assembly will now come apart. Set it aside and move to the next step.

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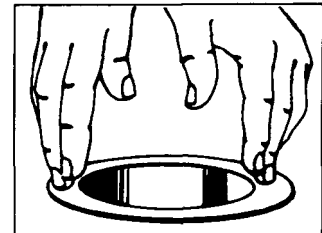
APPLY PUTTY TO THE SINK FLANGE



Make a nice fat snake of plumber's putty by rolling it between your hands.



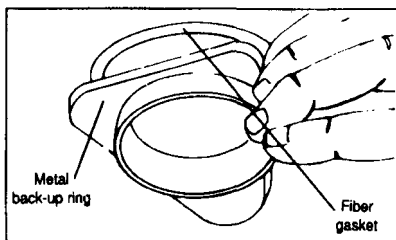
Apply this roll under the rim of the sink flange.



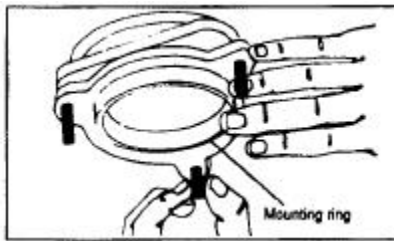
Then, place the sink flange into the sink drain hole and push down making sure it sits evenly in the putty.

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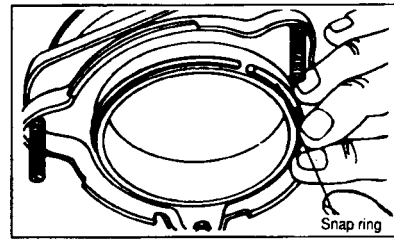
ATTACH THE UPPER MOUNTING ASSEMBLY



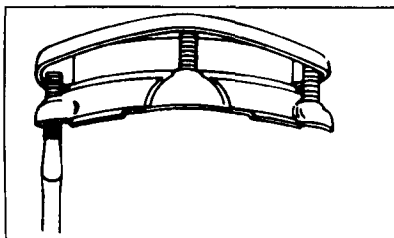
First, working from under the sink, slip the **fiber gasket** and next the **metal back-up ring** (flat side up) up and over the sink flange.



Hold the fiber gasket and metal back-up ring in place with one hand and place the mounting ring with its three screws *onto the sink sleeve*.



Now, push the fiber gasket, metal backup ring and the mounting ring further up on the sink sleeve. Slide the snap ring onto the sink sleeve until it pops into place in the groove on the sleeve.



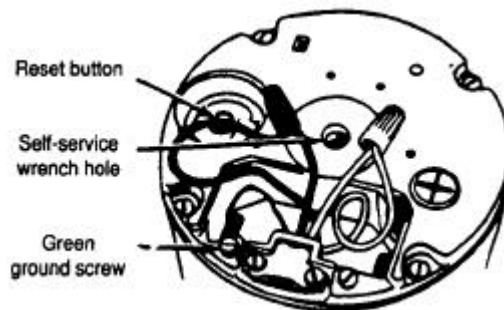
Tighten the three mounting screws with your screwdriver until the whole mounting assembly is seated evenly and tightly against the sink.

10

ELECTRICAL CONNECTIONS

Remove the electrical plate from the bottom of the disposer and pull out the two electrical wires. The ground screw is also under the plate.

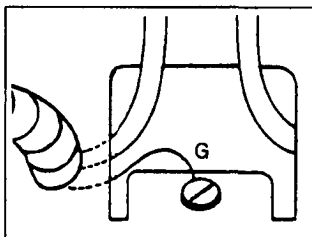
Connect the wires from the switch to the disposer wires. In making this connection, electrical wire nuts can be used or wires may be securely soldered together. Be sure to *connect white to white and black to black*. Wrap wire connections with electrical tape and put wires inside of disposer housing. Check for proper grounding, then replace the electrical cover.



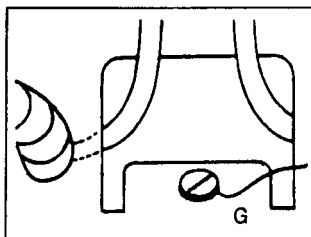
11

GROUNDING THE DISPOSER

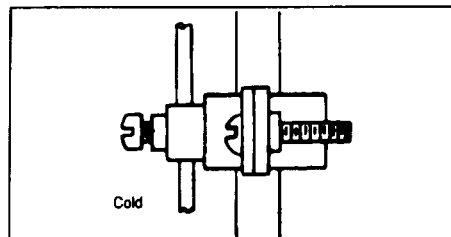
WARNING: IF NOT PROPERLY GROUNDED, a hazard of electrical shock may exist. **DO NOT** reconnect electrical current at main service panel until proper ground is installed. For your safety, **DO NOT** ground to a gas supply pipe.



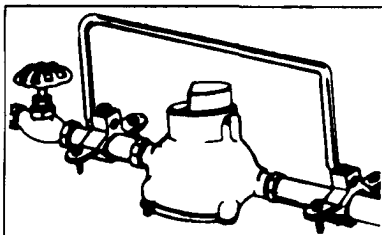
Simply attach the third green wire to the green ground screw on the unit.



If you don't have a ground supply conductor, buy a length of copper wire from your hardware store that is no smaller in size than the supply wire and attach one end to the green ground screw on the unit.



Attach the other end of this ground wire to the **METAL** cold water pipe. **NOTE:** Be sure that this cold water pipe is continuous **METAL** pipe from the sink to the ground. Use (Underwriters Laboratories Inc., listed for the U.S.A.) ground clamp to attach wire to pipe. If any doubt, or if **NON-METAL** pipe is used in your home water connections or if plastic pipe is used in your water supply pipe, you will need a qualified electrician to install a proper ground.



If you have a water meter in your home, check the meter to see if there is a wire that comes across it. If there is no wire, your cold water pipe is **NOT GROUNDED**. To properly ground it, add a #6 copper wire as shown for 200 amp service or less. Use (Underwriters Laboratories Inc., listed for the U.S.A.) ground clamps to attach wire to pipe.

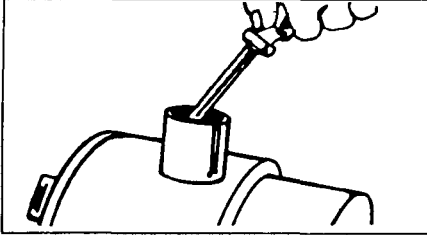
12

OPTIONAL STEP

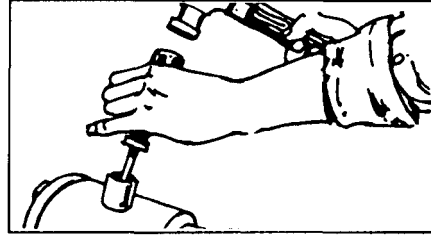
If you do NOT plan to use this step, go to step 13.

The model LC-50 is designed to be used with water from an overhead faucet. As an option, the water/dishwasher drain inlet can be used for direct water connections, or as a connection for your dishwasher drain.

A. Preparing the water/dishwasher drain inlet

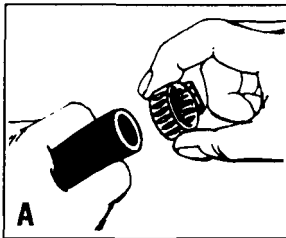


Lay the disposer on its side and insert the tip of your screwdriver into the water/drain inlet opening at an angle.

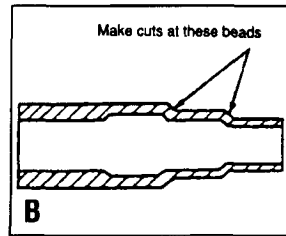


Tap the end of the screwdriver with a hammer until the molded plug pops out. **MAKE SURE YOU TAKE THE LOOSE PLUG OUT OF YOUR DISPOSER.**

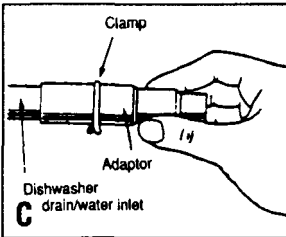
B. Connecting direct water line or dishwasher drain hose to the disposer. This is done after step 13.



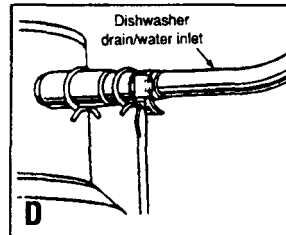
Remove the clamp or fittings from the end of your dishwasher drain hose. (Dishwasher application only.)



Then determine the outside diameter of dishwasher drain line and cut rubber adaptor to correct size. (Most commercial water lines are 1/2" so no cuts are necessary.)



Slide large end of adaptor over inlet tube of disposer. Fasten the adaptor to the disposer with a proper size clamp.



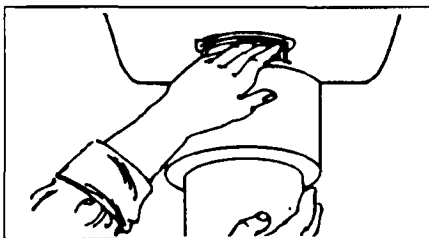
Slip the remaining clamp over the water line or dishwasher drain hose and back two or three inches. Now, slip the drain hose or water line into the adaptor. Then slide clamp into position and tighten.

NOTE: Both types of connections are recommended to be used with an In-Sink-Erator Connection kit, part number 8301 (shown above).

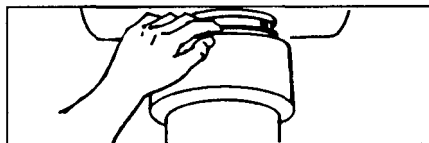
IMPORTANT: If you connect your dishwasher drain hose to the disposer, the discharge water must go through an air gap. Direct water connections require a solenoid valve (Part #11475), and a syphon breaker (Part #11477). If your water line velocity is greater than 3 GPM, it is recommended you use a flow control valve (Part #110330). Connections should comply to local plumbing codes. Check the three clamps to make sure all of them are tightened.

13

CONNECTING THE DISPOSER TO ITS MOUNTING ASSEMBLY



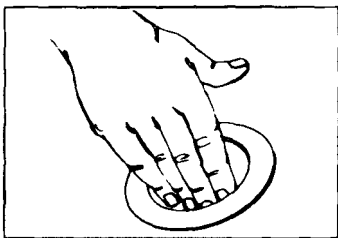
Lift the disposer and position it so that the disposer's three mounting lugs are lined up under the three sink mounting assembly screws.



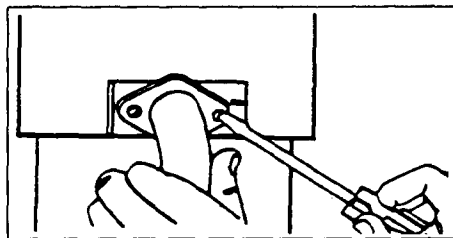
Then, while holding the disposer in place, turn the lower mounting ring with the lugs to the right until **all three** ears are engaged on the mounting assembly. You will lock this ring later, after the plumbing connections are made.

14

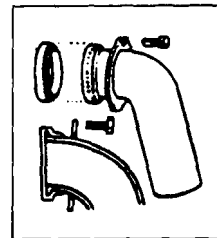
ATTACH THE DISPOSER DISCHARGE TUBE TO YOUR SINK'S DRAIN TRAP



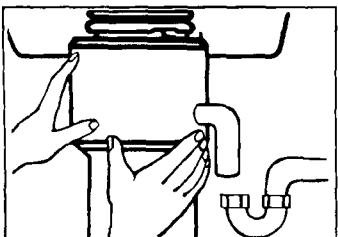
First, check inside the disposer grinding chamber to remove any objects or dirt that might have dropped in.



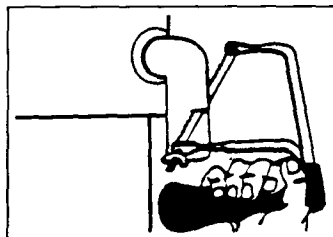
Rotate the disposer around and attach the discharge tube to the disposer. First, insert the rubber washer in the discharge opening. Then, put the metal flange over the discharge tube and screw the tube into place using the bolts provided.



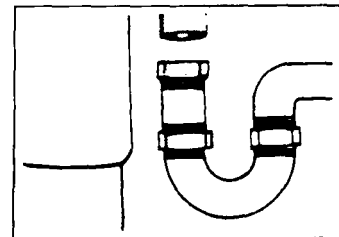
Install the discharge tube gasket onto the discharge tube. Gasket must be installed as shown to assure a leak-proof installation.



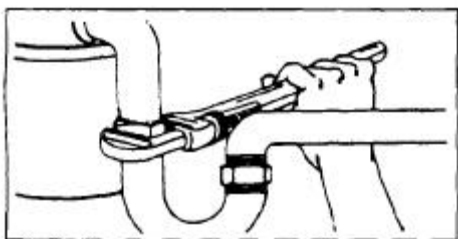
Turn the disposer so that the discharge tube aligns with your drain trap.



TUBE TOO LONG? Simply cut off as much as necessary with a hack saw, making sure you have a clean, straight cut.



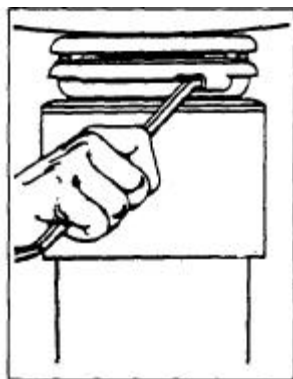
TUBE TOO SHORT? If the discharge tube doesn't reach your drain outlet, measure the difference and buy a drain trap extension tube.



IF IT FITS - Simply tighten the slip nut on the trap to make your connection to the discharge tube complete. **IF DOUBLE SINK EXISTS, WE RECOMMEND USE OF SEPARATE TRAPS FOR DISPOSER AND SECOND SINK.** **NOTE:** Be sure to comply with all applicable plumbing codes.

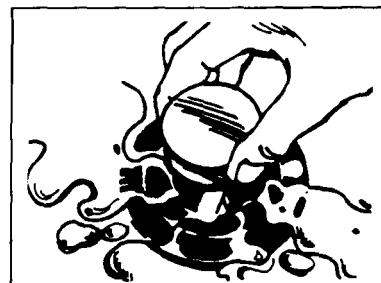
15

LOCK DISPOSER IN PLACE AND CHECK FOR LEAKS



Place the end of your "wrenchette" or a screwdriver into the left side of one of the disposer mounting lugs ... at the top of the disposer. Then, turn the "wrenchette" or screwdriver to the right until the disposer locks in place.

Run water slowly through the unit. Then, place the stopper in seal position and fill the sink with water.



Finally, remove the stopper and permit the water to flow. check for leaks and correct, if necessary.

IN-SINK-ERATOR DISPOSER WARRANTY INFORMATION

MODEL LC-50 FULL 1 YEAR WARRANTY

Covers all **replacement parts** and **repair labor** to correct defects in material or workmanship for the full warranty period from the date of installation. If service is required during the warranty period, an In-Sink-Erator Factory Authorized Service Center must be contacted to **replace or repair the disposer i no charge to the customer.**

If the manufacturer determines the unit should be replaced rather than repaired, the warranty on the replacement unit will be limited to the unexpired term i the original warranty.

HOW TO OBTAIN SERVICE

If you have questions concerning your disposer, or when service is needed, please call In-Sink-Erator's **Automated Service Information System** at 1-800 558-5700 for the nearest In-Sink-Erator Factory Authorized Service Center. In Canada call 1-414-554-5432. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

NO OTHER EXPRESS WARRANTY, WRITTEN OR ORAL APPLIES

If your disposer will not operate, follow these steps, in order:

1. Check the things you can do yourself. Be sure disposer is plugged firmly into appropriate receptacle or is properly electrically connected in some other manner. Be sure fuses and circuit breakers are in good order. Reread instruction booklet to assure that you are using correct operating procedure. Mai unnecessary service calls result in the service man doing what you can do yourself.
2. Check with your local authorized service center. For the location of your nearest factory authorized service center call toll free 1 -800-558-5700 or 1 -414 554-5432.
3. Write to us if a satisfactory solution is not reached in steps 1 and 2. Our address is:

IN-SINK-ERATOR, SERVICE DEPARTMENT
4700-21st Street
Racine, Wisconsin 53406 U.S.A.

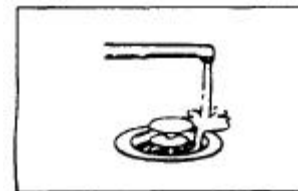
IMPORTANT: The model LC-50 is designed specifically for **light** commercial use. Examples of these applications include: grocery/convenience store deli's, fast food restaurants, office/church kitchens, and bed and breakfast inns. Use of this disposer in applications other than those named above may void your warranty. If you are unsure of a potential application, call the factory at 1-800-558-5712, ext. 3536 or 3537.

OPERATING INSTRUCTIONS

MODEL LC-50

1. Remove the stopper from the disposer sink sleeve and turn on the *cold* water fo//flow. (Water should remain on during complete disposer operation.) Failure to turn on a full flow of water before turning on the disposer can cause drain blockages.
2. "Flip" the switch to the *on* position to start disposer. Feed food waste into the disposer while it is running. **To avoid drain pipe blockage** allow water to flow sufficient time after grinding Is completed to be sure all waste is flushed away. Ground waste and water mixture flows at the rate of 2 seconds per foot in a horizontal drain line.

NOTE: After all the food waste has been fed into the disposer place the stopper in the sink sleeve In the drain/grind position (see Illustrations) to minimize the possible ejection of material while grinding. DO NOT INSERT HAND INTO DISPOSER.



Stopper in drain/grind position

DO'S AND DON'TS

DO...

- ? use a strong flow of cold water while grinding
- ? grind hard materials such as bones, fruit pits, etc.
- ? grind citrus and melon rinds
- ? grind coffee grounds
- ? dispose of grease/fats with strong flow of cold water
- ? flush disposer for cleaning

DON'T...

- use hot water while grinding food waste
- turn off disposer or water until grinding is complete
- grind extremely fibrous materials like corn husks, artichokes, etc. to avoid possible drain blockage
- grind plastic, plastic wrap, glass, cardboard, metal, clam and oyster shells, or large whole bones

SAFETY

IMPORTANT SAFETY INSTRUCTIONS

WARNING: When using electric appliances, basic precautions should always be followed, including the following:

1. Read all the instructions.
2. To reduce the risk of injury, close supervision is necessary when used near children.
3. Do not put fingers or hands into disposer.
4. Turn the power switch to the off position before attempting to clear a jam or remove an object from the disposer.
5. When attempting to loosen a jam in a waste disposer, use a self service wrenchette as described below.
6. When attempting to remove objects from a waste disposer use long-handled tongs or pliers.
7. To reduce the risk of injury by materials that may be expelled by a garbage disposer place the stopper in the drain/grind position when grinding. Do not put the following into a disposer:
 - a. Clam and oyster shells
 - b. Drain cleaner
 - c. Glass, china, plastic or plastic wrap
 - d. Large whole bones
 - e. Metal objects

Continued on next page.

Safety Instructions continued.

8. When not operating a disposer, leave the stopper in place to reduce the risk of objects falling into the disposer.
9. Before pressing red reset button, (see Fig. 4), be sure the wall switch is in the off position.
10. **GROUNDING INSTRUCTIONS FOR PERMANENTLY CONNECTED UNITS:** This appliance must be connected to a permanent metal ground, per National Electric Code, and in accordance with all local codes.

DANGER - Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or serviceman if you are in doubt as to whether the appliance is properly grounded.

SAVE THESE INSTRUCTIONS

TROUBLE SHOOTING

Loud noises while your disposer is operating are usually caused by the accidental entry of a spoon, bottle cap, or similar object. To correct this, turn off the disposer switch and water. After grinding disc has stopped turning, investigate.

Motor stops while your disposer is operating. This can be caused by overloading the unit. First, check the cause of the overload - often some foreign material is in the disposer. **To avoid personal injury** turn off the disposer switch and water. Remove object as previously explained. If motor remains inoperative, check your fuse box and replace any blown fuses, or look for a tripped circuit breaker.

NOTE: If the water does not drain as readily as you think it should and food waste tends to float or take too long to grind, don't reduce water. How to solve this problem. It is very likely that the drain line is partially clogged. To save the cost of a service call, use applications of a disposer safe cleanser and degreaser until drain runs smoothly. If you see no improvement after several applications, a drain auger should be used to remove the blockage. Like any precision machine, your disposer was built to perform a particular job. If unusual demands are placed on it, service interruptions are possible. These service interruptions, mentioned below, are usually not serious and in most cases, can be remedied without calling a service man.

TO FREE JAMS FROM FOREIGN OBJECTS

To save the cost of a service call to free a jam. The accidental entry of foreign material will cause any disposer to jam occasionally. To free jammed material, follow these steps to **avoid personal injury**:

1. Turn off disposer and shut off cold water.
2. Insert one end of your Self Service Wrench provided with your disposer, into the center hole of the bottom of the disposer as shown.
3. Work the wrench back and forth until it moves freely for at least one complete revolution. Remove wrench before restarting disposer.
4. Wait 3 to 5 minutes to allow disposer motor to cool and then push red reset button, (Fig. 4). **Before pressing red reset button be sure the wall switch is in the off position.**

Follow this procedure to save the cost of a service call to free a tight jam.

Be sure wall switch is turned off. Use a flashlight to determine the direction the unit was running at the time of the jam. A pry bar or tool should be inserted through the sink opening into the disposer. The end then must be placed alongside the grinding protrusion near the outside edge of the grinding disc. Be sure to place the pry tool on the proper side of the protrusion so when pressure is applied the grinding disc will move in the proper direction to unjam the disposer (see figure 5).

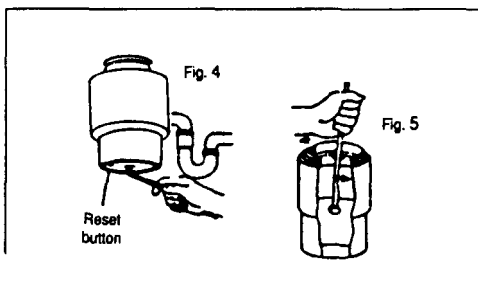
Do not drop or hammer on pry bar.

Lose Your Self Service Wrenchette?

If you should ever lose your Self Service Wrench just write to us and a replacement will be sent at no charge.

WRITE TO: WRENCHETTE

c/o IN-SINK-ERATOR
SERVICE DEPT.
4700 21st Street
Racine, Wisconsin 53406



For Service Information Call Toll Free 1-800-558-5712 (U.S.) or 1-414-554-5432 (Canada)