

PRODUCT MANUAL FOR MODEL

IOD16022 AND IOD22030

COUNTER TOP DISPENSER



Introduction

To the owner or user: This product manual is a source of information about the installation, start up, cleaning, maintenance and repair of the product.

The IOD16022 and IOD22030 are ice only counter top dispensers designed to use 22 inch wide and 30 inch wide respectfully Ice-O-Matic cubed ice machines as the source of ice.

Ice from the cuber falls into the insulated bin where it is stored until needed. When a user pushes the dispense button, a rotating wheel scoops the ice up to the top front of the bin where there is an outlet to the ice chute. Ice will dispense continually for as long as the push button or lever is depressed or until the bin is empty.

Table of Contents

Specification/Limitations	Page 2-3
Installation	Page 4-7
Cleaning	Page 8-9
Service Diagnosis	Page 10
Parts List	Page 11-19
Wiring Diagram	Page 20-21
Warranty Information	Page 3

Note the warning symbol where it appears in this manual. It is an alert for important safety information on a hazard that might cause serious injury.



Keep this manual for future reference.

Limitations:

Must meet the same limitations as the cuber installed on top of it:

50° F. air minimum 100° F. air maximum

Must be installed indoors.

Must allow at least 6 inch clearance at the rear and both sides when using an <u>air cooled</u> ice machine.

Must allow space for the utility connection at the back.

Must have a drain.

Options (Field Installed) (*Required)

*Thermostatic Bin Control Kit (22 Inch Ice Series) Part Number 1051134-01

*Thermostatic Bin Control Kit (30 Inch Ice Series) Part Number 1051020-02

Manual Water Glass Filler Kit Part Number KISWGF

Ice Machine Adapters

*22 inch cuber
*30 inch cuber
*22 inch machine on a 30 inch dispenser

Part Number KBT2222
Part Number KBT3030
Part Number KBT2230

Leg Kit Part Number KIOD4

Dispenser Specifications

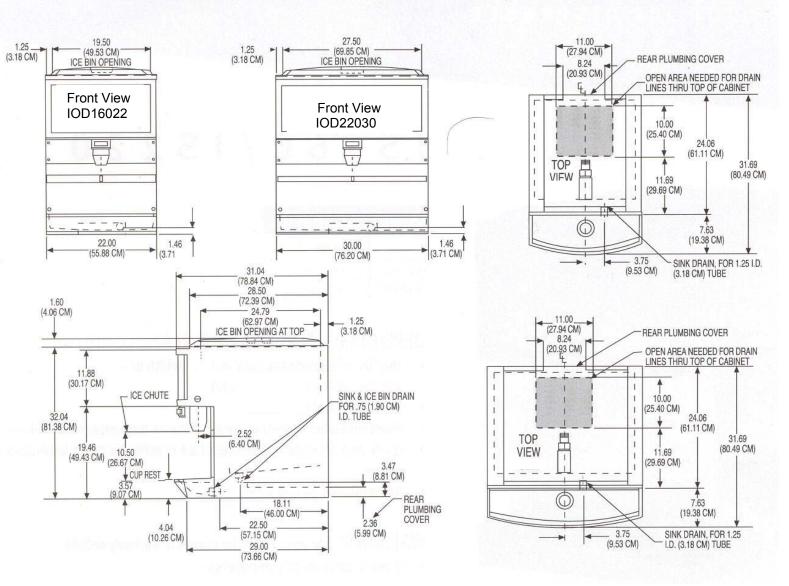
Model Number	Storage Capacity(lbs-kgs)	Basic <u>Electrical</u>	<u>Actuation</u>	Min. Circuit <u>Ampacity</u>	Max. Fuse Size
IOD16022	160/70	115/60/1	Lever	2	15
IOD16022	160/70	115/60/1	Button	2	15
IOD22030	220/100	115/60/1	Lever	2	15
IOD22030	220/100	115/60/1	Button	2	15

Dimensions (Inches)

Model Number	<u>Width</u>	<u>Depth</u>	<u>Height</u>
IOD16022	22 inches	32 inches	34 inches
IOD22030	30 inches	32 inches	34 inches

Note: Counter top legs are included with the dispenser.

Dispensers Specifications



Ice-O-Matic ice machines are not designed for outdoor installations.

Machine requires voltage indicated on rating nameplate. Failures caused by improper voltage are not considered factory defects. Extended periods of operation at temperatures exceeding limitations constitutes misuse under the terms of the Ice-O-Matic Manufacture's Limited Warranty, resulting in a loss of warranty coverage. Specifications and design are subject to change without notice.

The IOD16022 and IOD22030 carry a 2 year Parts warranty and a 1 year Labor Warranty.

Installation: General

Equipment Description

The IOD16022 and IOD22030 are counter top mounted ice only dispensers. These units are designed to dispense cube ice only and have ice storage capacities of 160 lb. and 220 lb. respectively.

Site Preparation

The site chosen for the dispenser must be capable of supporting the dispenser with a full bin of ice plus all other loads being placed on the surface supporting the dispenser. If an ice machine is being placed on the dispenser, the weight of the ice machine must be included in the calculations to determine the support structure needed for the dispenser.

Allow sufficient clearance above the unit for removal of the cover and for pouring ice into the bin.

A 115 volt, 15 amp electric outlet needs to be located within 6 feet of the unit. The outlet must be properly grounded and fused. No other electrical appliance should be on the circuit. <u>ALL ELECTRICAL WIRING MUST CONFORM TO NATIONAL AND LOCAL CODES</u>

Do not place the dispenser next to heat sources such as ovens, heat ducts or in the warm air discharge from adjacent equipment.

The unit must be located near a building drain. Drain lines must be properly vented and pitched to ensure free flowing of wastewater to the drain.

These dispensers are designed to dispense cubed ice only. Do not use flaked, crushed or compressed ice forms.

If an Ice-O-Matic ice machine is to be placed on top of the dispenser, an adapter will be required.

Ice Machine Adapter22 inch cuberPart Number KBT2222Ice Machine Adapter22 inch cuber on 30 wide dispenserPart Number KBT2230Ice Machine Adapter30 inch cuberPart Number KBT3030

Dispenser Preparation

Remove the shipping carton and discard.

Remove the merchandiser by lifting up on the merchandiser and pulling it forward.

Remove the drain pan from the skid, and all hardware from the bin.

Remove the splash panel by removing the two phillips head screws near the bottom corners of the panel.

Remove the 4 brackets holding the dispenser to the skid.

(Optional) Screw 4 legs into the well nuts in the bottom of the dispenser.

In order to comply with NSF requirments, this unit must be either elevated above the counter top sufficiently to provide space for cleaning under the unit or the unit must be sealed to the counter top. Elevating the unit may be accomplished by using legs. (IOM Part Number KIOD4)

Drain Line Installation (Dispenser)

Connect a ¾" ID flexible drain hose to the drain nipple located under the ice storage bin. Clamp the hose in place and insulate the hose to prevent condensation.

Connect a ¾" ID flexible drain hose to the drain tube at the back of the drain pan. Clamp the drain hose in place.

Dispenser Installation

If the dispenser is to be sealed to the counter top, the drain tubing should be available and planned such that the connections may be finished after the unit has been sealed to the counter.

Sealing may be accomplished by the Use of RTV rubber sealant such as Dow Corning 731.

With the unit located on the counter as desired:

Tilt or lift the unit to expose the bottom flanges of the base frame.

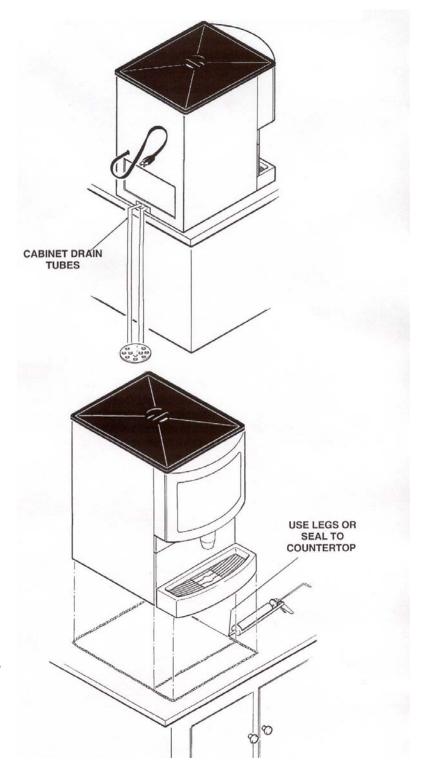
Apply the sealant to cover the bottom Flanges of the base frame

Return the unit to the desired position on the counter top.

Add sealant around the base frame and Counter top to provide a seal with a radius of ½ inch. Follow the sealant manufacturer's instructions on the package for working with the sealant, and cleaning up.

Seal around all access holes in the counter Top with Permagum or Mortite caulk or an equivalent material.

Route the drain lines to the building drain. The drain lines must be pitched and vented to ensure proper flowage of the wastewater.



Final Preparation

Install the drain pan on the dispenser by engaging the slots in the metal backplate of the drain pan onto the brackets protruding from the lower left and right hand corners of the dispenser front. Push down on the drain pan to lock it into place.

When applicable, seal the drain pan to the counter top. If the dispenser is to be sealed to the counter top, use the sealant recommended in the "**Dispenser Installation**" section of the instructions.

Place the cup rest into the drain pan.

Install the fluorescent bulb into the bulb holders located on the top sloped portion of the front of the dispenser.

Place the merchandiser on the unit.

Sanitize the ice storage system. (See page 9)

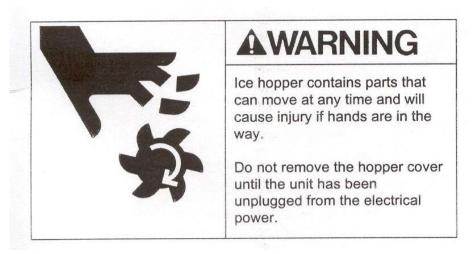
Start-Up

Fill the bin with sanitary ice.

Place the cover on top of the dispenser.

Note:

This unit is provided with a timer that will activate the ice dispenser rotor for 1 to 6 seconds each time the unit is plugged into an electrical outlet and every 2 hours thereafter. The agitation cycle helps to keep the ice from fusing together during long periods of non-use. No ice is dispensed during the agitation.



Plug the unit's power cord into the electrical outlet. The rotor should turn for a few seconds and the fluorescent bulb should illuminate. Dispense several containers of ice.

Check all connections including drain hoses for leaks. Repair as required.

Installation: General

Ice Machine Installation

Make sure the counter the dispenser is place on is structurally able to hold the combined weight of the dispenser, ice and ice machine.

Remove the dispenser cover. (Retain for future use)

Place the appropriate stainless steel KBT adapter onto the top of the dispenser.

22 inch wide ice machine on a 22-inch wide dispenser.
22 inch wide ice machine on a 30-inch wide dispenser.
23 inch wide ice machine on a 30-inch wide dispenser.
24 Part Number KBT2222
25 Part Number KBT2230
26 Part Number KBT3030

Install the thermostatic bin control kit when applicable. Part Number 1051020-02

Note: The thermostatic bin control kit is required on all ICE Series Cubers.

Using silicone sealant, place a bead of sealant onto the top edges of the area on the adapter where the ice machine will go.

Install the ice machine onto the dispenser, center the machine left to right and align the machine flush to the back.

Install the thermostatic bin control cap tube into the thermal well mounted in the bin.

Note: The thermostatic bin control kit is required on all ICE Series Cubers.

Fasten together at the back of the machine using fasteners from the icemaker and mounting hardware from the kit.

Place the front cover plate onto the dispenser in front of the ice machine.

Follow the ice machine start-up instructions included with the ice machine.

Completion

Make a final check for any leaks and correct as necessary.

Reinstall the splash panel and secure it with two Phillips head screws.

Check for proper operation of the dispense system.

Instruct the site manager regarding the requirements for maintaining, operation and sanitizing the dispenser.

The dispenser **must** be cleaned and sanitized periodically as prescribed by local health authority or the product supplier, which ever has jurisdiction. Ice-O-Matic recommends the dispenser be cleaned and sanitized at least monthly if not specified by local code requirement.

Dispenser Cleaning and Sanitizing Procedures

WARNING: When using cleaning fluids or any chemicals, rubber gloves and eye protection should be worn.

The sink, grill and splash panel should be cleaned daily.

The ice storage system should be sanitized monthly.

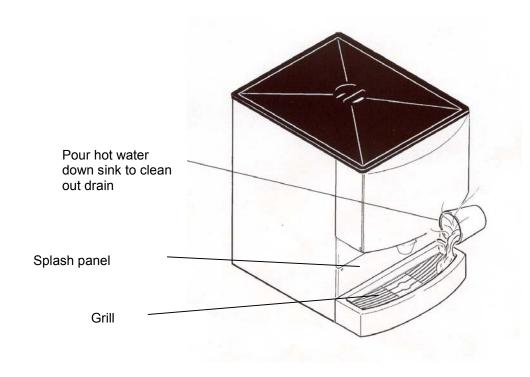
Daily:

Lift up and remove the grill from the sink.

Use soap, hot water and a clean cloth to wash the sink and splash panel: rinse with hot water, allowing plenty of hot water to run down the drain.

Wash the grill, then rinse with clean water. Place the grill back in sink.

Clean all exterior surfaces of the unit with warm water and a sponge. Rinse out the sponge with clean water, wring excess water out of the sponge, and wipe off external surfaces of the unit. Wipe unit dry with a clean soft cloth. **Do not use abrasive type cleaners.**



Monthly And Initial Start-Up:

Sanitize the ice storage system

Disconnect power to the dispenser and ice machine.





Remove the dispenser front cover plate in front of the ice machine and discard all remaining ice,

Mix a solution of 1 ounce of household bleach to 2 gallons of potable water, or: mix a solution of any approved sanitizer, following the directions for mixing and applying that sanitizer.

Unscrew the sweep arm from the rotor shaft, and pull the rotor from the hopper.

Using a clean cloth or sponge, wipe all interior surfaces of the storage hopper with the sanitizing solution, allow to air dry.

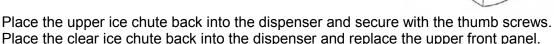
Wipe all surfaces of the rotor and sweep arm with the sanitizing solution, allow to air dry.

Lift up & out and remove the upper front panel.

Twist the clear ice chute 1/3 turn and pull down to remove.

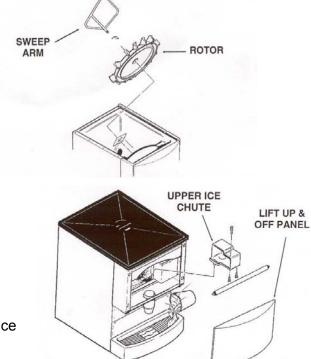
Locate the two thumbscrews holding the upper ice chute and remove them. Remove the upper ice chute from the machine.

Thoroughly wipe the surfaces of the bin door and both ice chutes with the sanitizing solution, and allow to air dry.



Reassemble the rotor and sweep arm assembly and replace the dispenser cover plate.

Reconnect power to the ice machine and dispenser.



Service Diagnosis

PROBLEM	PROBABLE CAUSE	CORRECTION
Will not dispense ice	No ice in hopper	Fill bin with ice
	Vend switch does not close	Check vend switch, replace if open
	Drive motor not working	Check drive motor, replace if not working
	Door solenoid will not open door	Check/replace door and solenoid
	Rotor will not turn	Check hub of rotor
	Relay for vend switch does not close during operation	Check relays, replace as required

Electrical Sequence Reference Wiring Diagram, Page 20-21

Ice Vending

Ice is dispensed as long as the vend lever or push button is depressed or until the bin is empty.

When the ice vend lever or push button is depressed, the vend switch closes, and makes a circuit to the coil of relay A.

When relay A is energized, relay A's contacts 4-6 and 5-3 close. Relays A's contacts 5-1 open

When relay A's contacts 4-6 close, they make a circuit to the door solenoid, which opens the ice door.

When relays A's contacts 5-3 close, they make a circuit to the coil of relay B.

When relays A's contacts 5-1 open, the circuit to the timer is opened.

When relay B's coil is energized, it closes a circuit to the gearmotor, and the gearmotor turns the rotor.

Agitation

Relay A's contacts 5-1 are closed and make a circuit to the timer.

The timer is energized when the unit is not dispensing. The timer switch will close for a few seconds every two hours.

When the timer switch is closed, it makes a circuit to relay B's coil.

When relay B is energized, it powers the gearmotor and the rotor is turned.

IOD16022 and IOD2230 Service Parts

This parts list contains the service parts available for the IOD16022 and IOS22030 ice only dispenser.

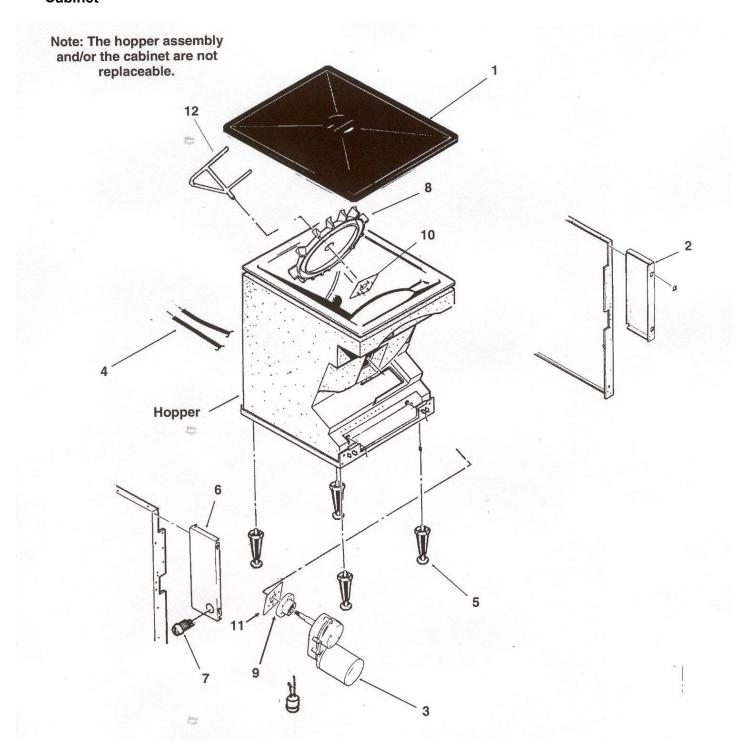
Check the model number on the data plate and refer to the correct column listing for the specific dispenser. These two models share many common components but also have components that are model specific.

Check carefully that the correct part is identified and ordered.

TABLE OF CONTENTS

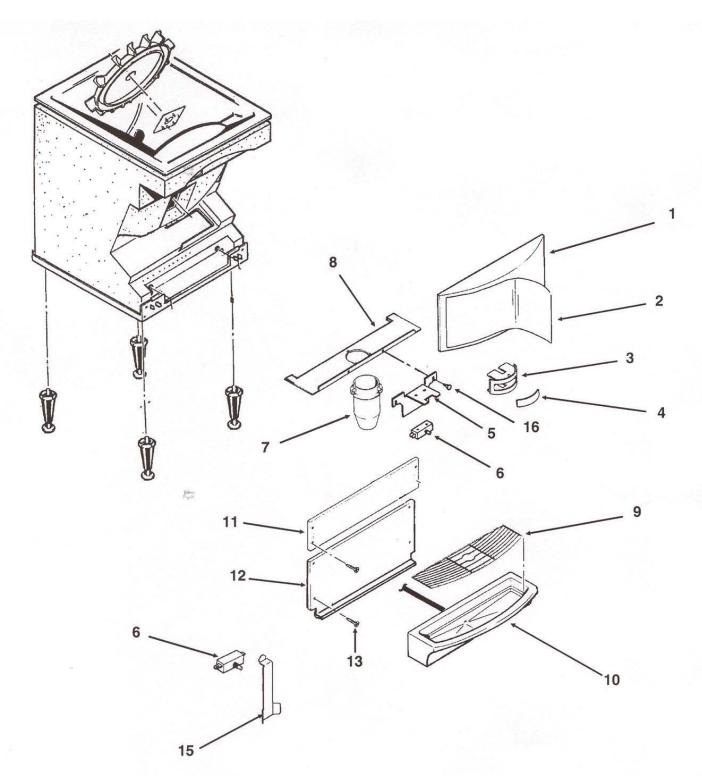
Cabinet Pictorial	Page 12
Cabinet Parts Listing	Page 13
Cabinet Front Pictorial	Page 14
Cabinet Front Parts Listing	Page 15
Control Box Pictorial	Page 16
Control Box Parts Listing	Page 17
Ice Door and Solenoid Assembly Pictorial	Page 18
Ice Door and Solenoid Assembly Parts Listing	Page 19
Wiring Diagram	Page 20-21

Cabinet



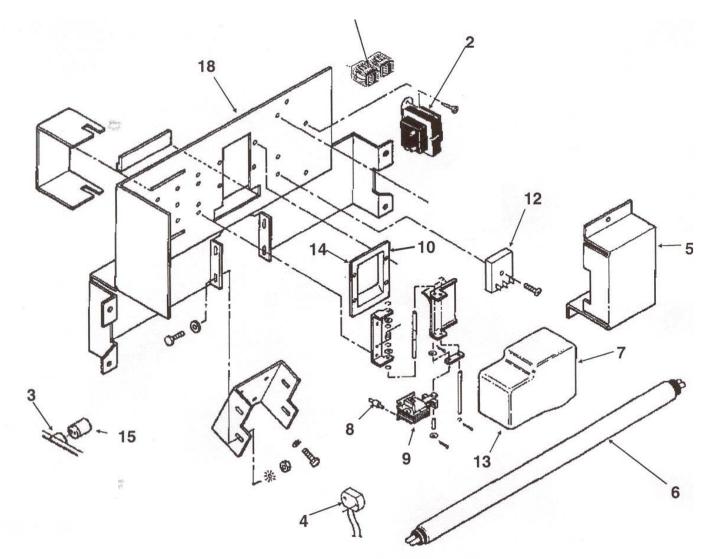
Cabinet	1004000	1000000	
Item Number	IOD16022 Part Number	IOD22030 Part Number	Description
1	30064502	30064512	Black Lid
2	30074312	30074312	Side Panel Extension
3	3012236901	3012236901	Gearmotor Assembly
4	N/A	N/A	Drain Hose
5	2066110000	2066110000	Leg Kit
6	30074311	30074311	Side Panel Extension
7	1117390000	1117390000	Switch, Lock and Key
8	3002304001	3002304001	Rotor
9	3A34760001	3A34760001	Hub Assembly
10	3A34810001	3A34810001	Mounting Plate, Hub
11	3A34817001	3A34817001	Gearmotor Plate
12	3002310305	3002310305	Sweep Arm

Cabinet Front



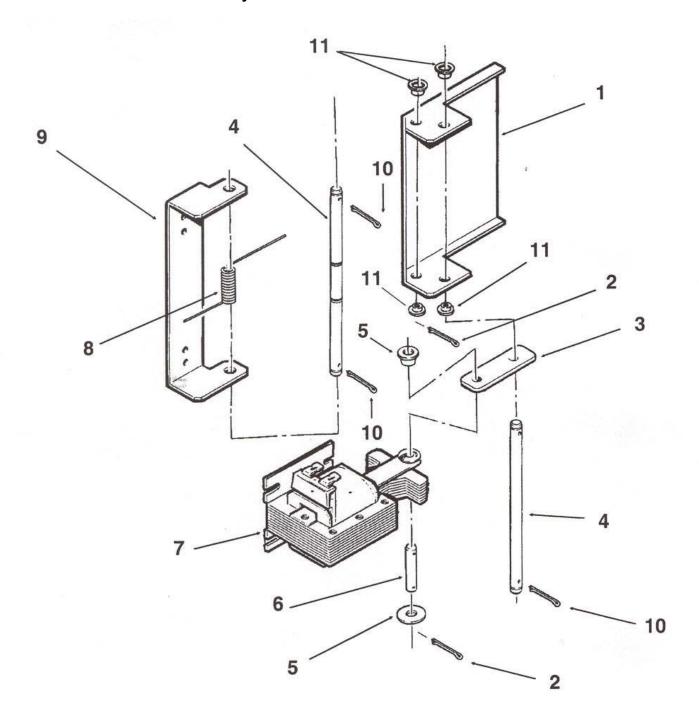
Cabinet Front	1004000	1000000	
Item Number	IOD16022 Part Number	IOD22030 Part Number	Description
1	30064206	30064226	Cover, Merch. Black-Lever
	30064218	30064238	Cover, Merch. Black-Push Button
	30069901	30069901	Screws For Cover
2	3015075218	3015075418	Merch. Sign
3	3002307101	3002307101	Bezel for Ice Switch Button
4	3002307200	3002307200	Button, Ice Switch
5	30072700	30072700	Push Button Switch Bracket
6	30073000	30073000	Microswitch (Push Button)
	3012157001	3012157001	Microswitch (Lever)
7	3002306801	3002306801	Ice Chute
8	30072800	30072830	Ice Chute Panel
9	3000570132	30077031	Grill/Cup rest
10	30061102	30061122	Black Drain Pan Assembly
11	3A34794005	3A34795009	Panel, Lever
	3034794006	3A34795010	Panel, Push Button
12	30061810	30076010	Splash Panel
13	30073200	30073200	Screw
14	3012237201	3012237201	Boot For Microswitch
15	3A34806001	3A34806001	Lever (Lever Models Only)
16	3003072706	3003072706	Thumbscrew

Control Box



Control Box	10040000	IODOOOO	
Item Number	IOD16022 Part Number	IOD22030 Part Number	<u>Description</u>
1	3000480001	3000480001	Relay
2	1193210500	1193210500	Transformer
3	2021610000	2021610000	Starter Socket
4	3012238501	3012238501	Bulb Holder
5	30073510	30073530	Control Box Cover
6	3012237701	3012237702	Fluorescent Tube
7	3002306701	3002306701	Cover
8	3013088201	3013088201	Rubber Mounts
9	3A32683003	3A32683003	Solenoid
10	3013059500	3013059500	Door Gasket
11	N/A	N/A	Transformer
12	3012237101	3012237101	Agitation Timer
13	3000522001	3000522001	Thumb Screw
14	3000477000	3000477000	Spout Adapter Assembly
15	3012238601	3012238601	Starter
16	3012238002	3012238002	Ballast (Not Shown)

Ice Door and Solenoid Assembly



Ice Door And Solenoid Assembly

Item Number	IOD16022 Part Number	IOD22030 Part Number	<u>Description</u>
1	3A34801001	3A34801001	Ice Door
2	1061400000	1061400000	Cotter Pin (6 Req.)
3	3002308902	3002308902	Solenoid Link
	3000463000	3000463000	Solenoid Link Bushings
4	3002308801	3002308801	Long Axle
5	1034580000	1034580000	Washer
6	3A32685001	3A32685001	Axle, Linkage
7	2066990000	2066990000	Solenoid
8	3A32690002	3A32690002	Torsion Spring
9	3A34802001	3A34802001	Door Hinge
10	1061400000	1061400000	Cotter Pin
11	3000463000	3000463000	Plastic Hinge Bushing (6 Req.)
	3000482000	3000482000	Kit, Door Assembly

