

**Aladdin Temp-Rite**<sup>®</sup>...better by degrees.

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# Temp-Rite II Excel Rethermalization carts C616S, C620S



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Manual P/N 12789  
Rev. B 05/13/2016

INSTALLATION, OPERATION & SERVICE MANUAL

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**IMPORTANT NOTE:**

Doors must remain open during chill-down and rethermalization cycle.

Rethermalization cart to be used with Aladdin Temp-Rite approved Roll-In Refrigerator or Central Retherm System only, tempered to 41°F or less.

Duty cycle not to exceed 40 minutes of continuous rethermalization or an additional.

**AVIS IMPORTANT:**

Portes doivent rester ouvertes pendant mise en froid et rethermalisation cycle.

Chariot rethermalisation doit être utilisé seulement avec armoire réfrigérée ou chambre froide approuvée par Aladdin Temp-Rite, tempérée à 5°C ou moins.

Le cycle horaire ne doit pas dépasser les 40 minutes de rethermalisation continu ni 24 minutes des temps retenir additionnel.

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## **I. INTRODUCTION**

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Your Aladdin C600S Series rethermalization carts are available in 16 and 20 shelf capacity. The carts may serve 4 basic functions:

- A. Store complete, pre-assembled meals;
- B. Rethermalize or boost meals inside a rethermalization refrigerator or walk-in cooler;
- C. Meal delivery;
- D. Retrieve trays for return to warewash after each meal.

When trays containing meals to be heated are placed on the Individually activated heater elements, they are positioned so that the dome activates the switch for each heater element. When trays containing cold meals are placed in the carts, they are done so without the dome cover or with a clear dome.

A positive and automatic electrical connection system is achieved when the cart is rolled into the rethermalization refrigerator or central walk-in cart stall by guiding the rigid casters into the caster guides on the floor. The floating male plug on the cart mates automatically with the receptacle on the refrigerator wall as the cart is rolled into position, assuring a positive automatic connection. When the carts are in position, they are locked in place by pushing down on the swivel caster brake.

The carts are then held in refrigerated storage. Approximately thirty-six (36) minutes before meal service, meals are heated while inside the refrigerator or walk-in without rehandling. Aladdin's insulated technology can keep each food item, hot or cold, at the proper temperature until served.

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## II. RECEIVING INSPECTIONS

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Your Aladdin C600S carts are factory tested for performance and are free from defects when shipped. The utmost care has been taken in packaging this product to protect against damage in transit.

You should carefully inspect your C600S cart to assure that no damage has occurred in transit. If however, damage is detected see the following damaged goods policy. Under no condition may a damaged unit be returned to Aladdin Temp-Rite without first obtaining written permission (return authorization). No credit will be issued for claims not reported to Aladdin within ten (10) business days from receipt of shipment.

### ALADDIN DAMAGED GOODS POLICY

There are two types of damaged merchandise:

- Visual Damage
- Concealed Damage

Visual Damage – When the product being received is visibly damaged.

1. Receiver should not accept merchandise with visual damage.
2. Receiver must sign delivery receipt “refused merchandise due to damage” and specify damage.
3. Receiver should call Aladdin Customer Service immediately after refusal.
4. Carrier will notify Aladdin Traffic Department and a claim will be filed.
5. Carrier will send acknowledgement of claim within 7 days after receiving.

Concealed Damage – When damaged merchandise cannot be externally detected.

Any receiving operation should be looking for this type of damage. Sometimes, however, depending on the type of product, it is almost impossible to notice.

1. Merchandise must not be removed from point of delivery and all packaging must be kept intact.
2. Receiver must contact Aladdin customer service to report damage.
3. Aladdin traffic department will request inspection based on the dollar value of the cargo.
4. Aladdin traffic department will file a claim based on the findings of the inspection.

Failure to comply with these policies will result in the customer’s responsibility to file claims.

## III. SAFETY

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If you know how to correctly install, operate, clean, and service the Temp-Rite II Excel C600S system your satisfaction with the equipment will be increased and safety will be enhanced. In accordance with generally accepted product safety labeling guidelines, the following three signal words are used throughout this manual to alert you to potential hazards and to tell you how to avoid them.

**WARNING:** The word "Warning" identifies a potentially hazardous situation which, if not avoided COULD result in death or serious personal injury.

**CAUTION:** The word "Caution" identifies a potentially hazardous situation which, if not avoided MAY result in minor or moderate injury. The word "Caution" may also be used to alert against unsafe practices and property damage only accidents.



"Important" is used to identify installation operation or maintenance information which is important but not hazard related.

## IV. INSTALLATION

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- 1) Check for any shipping damage (see section II RECEIVING INSPECTIONS).
- 2) Roll cart into retherm refrigerator or cart stall.
- 3) Ensure that refrigerator or cart stall sees the cart.
  - In a retherm bay the display will show "cart present" and beep.
  - With a cart stall the touch screen controller will show a blue square at the cart stall number.
- 4) Undock, cart is ready for use.

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## V. CLEANING

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### CAUTION



Use of chlorinated detergents may cause damage to the stainless steel finish.

Use of steel wool or metallic scouring cloths may damage the stainless steel.

Harsh chemicals and insufficiently diluted sanitizers will damage heater elements and void equipment warranty

The Aladdin Excel™ rethermalization cart should be cleaned and sanitized after each use.

#### RECOMMENDED METHOD

1. Wipe heater elements, walls, handles, and sides with a soft clean cloth, using warm water and a non-chlorinated and non-abrasive cleaner. (Save time by wiping in a figure eight pattern.)
2. Rinse thoroughly with warm water and wipe dry with a soft, absorbent cloth.
3. To remove heavy soil, rub the area with a non-metallic, fine grain, scouring cloth. Be sure to rub in the same direction as the metal grain. Rinse thoroughly with warm water and wipe dry with a soft, absorbent cloth.
4. Sanitize with a properly diluted sanitizer. Use of improperly diluted sanitizers will cause damage to the heater elements and metal finish.
5. Outside of Cart Only! As a final step, a stainless steel polish may be used. The polish will shine the stainless steel and provide a protective finish that will reduce future soiling.
6. **Do not spray cart with hose, steam wand, pressure washer, or cart wash.**

#### ADDITIONAL CLEANING PROCEDURES FOR DECORATIVE PANELS AND BUMPERS

1. Clean the decorative panels with a properly diluted stainless steel cleaner using a non-abrasive cloth.
2. Clean the bumpers with any industrial sanitizer diluted to its recommended strength.

## VI. MAINTENANCE

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NOTE: The following maintenance frequency is a recommendation only. Adjustment may be required for varying environments and equipment age.

### **CART BODY:**

Tray Guides (Monthly or as needed) See TRAY GUIDE TEST PROCEDURE on next page

1. Replace any broken or loose tray guides.

Casters (Monthly or as needed)

1. Check casters for freedom of movement and proper brake retention.
2. Remove debris. ( mop strings, hair, etc.)
3. Lubricate casters and wheels as needed. (at least semiannually)
4. Replace caster when rubber measures less than  $\frac{1}{4}$ " from caster rim.

Cart Mating (Semi-Annually or as needed)

1. Check for proper mating into cart stall or refrigerator receptacle.
2. Check for bent plug blades, misaligned actuation bar, restricted plug float, and improper receptacle height.

Cart Bumpers (Semi-Annually or as needed)

1. Ensure bumpers are securely fastened, tighten as needed.
2. Clean with cleaning solution mixed at regular strength dilution.

Side and Top Panels (Quarterly or as needed)

1. Check side and top panels of the retherm cart for tightness and proper seal.
2. Replace missing or broken silicone seal where top panel meets all four side panels and where corner panels meet bumper.

Actuation Bar (Quarterly or as needed)

1. Ensure that actuation bar is securely fastened and parallel with the base of the cart to achieve correct proximity input to the retherm controller.

### **HEATING ELEMENTS:**

Element Visual Inspection (Quarterly or as needed)

1. Make sure that each heater element is securely attached to the mounting crossbar.
2. Tighten any loose heater pods or mounting crossbars.

Element Function Check (Weekly or as needed)

1. Replace any malfunctioning heater elements.  
(See HEATER ELEMENT FUNCTION CHECK procedure on page 10)

### **GENERAL ELECTRICAL**

Cart Lights (Quarterly or as needed)

1. Inspect cart lights, making sure that they are in good condition and operational.
2. Replace as required.

Plug Assembly (Monthly or as needed)

1. Visually and physically inspect retherm cart plug assembly for freedom of horizontal and vertical movement. Remove any debris found and replace if the assembly is bent.
2. Inspect plug blades for distortion and replace if any blades are bent, broken or missing.

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**CART DOORS** (Quarterly or as needed)

1. Verify that the doors swing freely over a 270° arc without contacting the bumpers or top cover panel, and stay securely in place in the open and closed positions.
2. Replace any missing or loose magnets.
3. Replace any missing black screw covers.

**HANDLES** (Quarterly or as needed)

1. Verify that the handles are securely fastened, tighten as needed.
2. Replace any missing screw covers.

**TOW HITCH OPTION** (Quarterly or as needed)

1. Ensure plunger is operating properly, tighten as needed.
2. Ensure that tow bar pulls out freely, but does not come out of the cart; adjust set screw as necessary.
3. Clean tow hitch and tighten all fasteners as needed.

## **TEST PROCEDURES**

### **TRAY GUIDE TEST PROCEDURE**

The Retherm cart is equipped with two tray guides on each tray level.

1. Run your hand down each side of the cart touching each tray guide to verify the guides are securely fastened to the cart.
2. Repeat this procedure for all sets of tray guides.
3. Replace any broken or loose tray guides.

1. Remove the screw covers from the defective element.
2. Notes: You have to remove the 7" entreé pod in order to remove the 3" soup pod.
3. Using a 5/32" Allen wrench, remove the two screws holding the element to the crossbar. After the screws are loose, gently pull the element away from the crossbar (pull out parallel to the floor). Note: Do not jerk or twist the element when removing it.
4. To install the new element, align the element and gently push it into place. Make sure the pins are properly aligned.
5. While firmly holding the element in place, align the screw holes and reinstall the screws. Make sure that the longer screw 10-32 x 1" is placed in the center where both elements are bolted together. Tighten using a 5/32" Allen wrench.
6. Replace the screw covers.
7. Verify the operation of the new element by using the heater element function check.

<b style="font-size: 1.2em; margin: 0 10px;">WARNING</b>
<p style="text-align: center;">Ensure the power source is removed from the cart before attempting the element replacement procedure or electric shock can occur.</p>

### HEATER ELEMENT REPLACEMENT PROCEDURE

1. Place a magnetic object (steel washers work well) on the raised portion of each heater element. This will activate the magnetic switch in each pod.
2. Connect the test cord set (PN 39471) to the cart with the cord set in the off position (center position). Connect the cart to 120v power supply (20amp).
3. Switch the cord set to test position (1) to energize every other element level. Watch for the light on the elements to come on. (Note: the light may flicker when it gets near the set point.)
4. If the test light comes on the element is working. Do not touch heater element as it may cause a burn. (Note: it is possible for the heater to work with a burned out bulb).
5. After checking the first set of alternating rows for approximately ten (10) minutes, switch the test cord to position three (3) to test the remaining elements (the other alternating rows).
6. After each element has been on for approximately ten (10) minutes. Switch test cord to middle position (off) and unplug test cord from wall.
7. Be sure to remove magnetic metal piece from the cart.
8. Replace any malfunctioning heater elements using the following procedure.

<b style="font-size: 1.2em; margin: 0 10px;">WARNING</b>
<p style="text-align: center;">Do not touch heater element as it may cause a burn.</p>

### HEATER ELEMENT FUNCTION CHECK

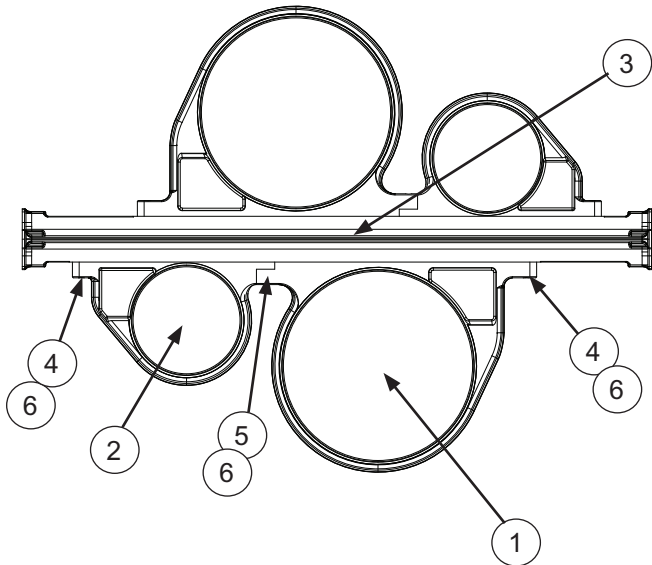
The following test procedure should only be performed by a qualified operator, maintenance technician, or an Aladdin authorized service agent.

# VII. TROUBLESHOOTING

Performance problems often result from minor incidents that can be found and corrected by checking and following the basic points mentioned in the table below.

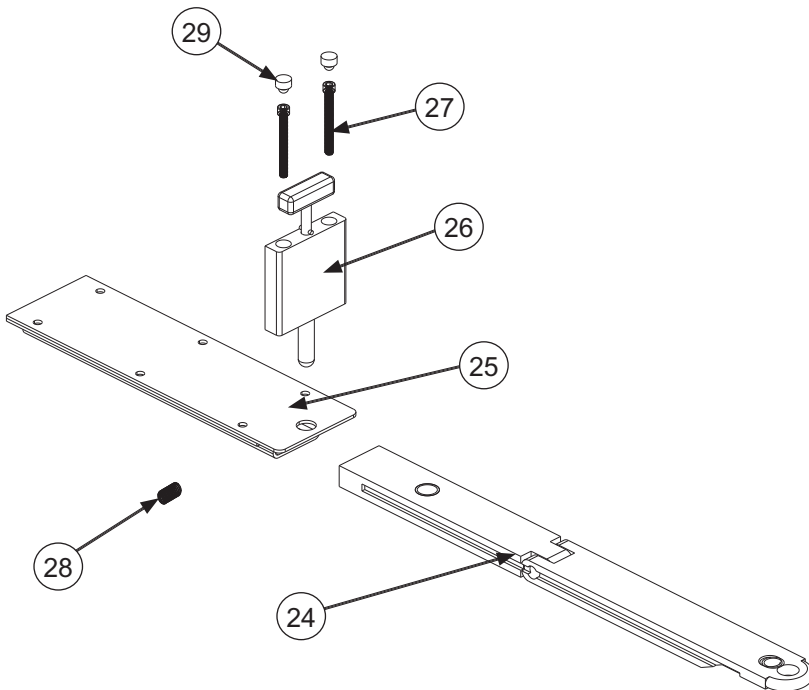
SYMPTOM	PROBABLE CAUSE	CORRECTION
Caster will not lock.	Debris in brake mechanism	Clean
Poor rolling of caster.	Debris in swivel bearing of caster. Needs grease.	Clean Add grease at zerk fittings.
No electric power to cart/cart present switch not showing on timer or touchscreen.	Cart not in refrigerator or cart stall. Breakers not on in control panel or refrigerator. Cart actuation bar not aligned correctly. Improper alignment of floating plug to receptacle.  Faulty relay in panel. Faulty receptacle or slide Weldment is bent. Faulty proximity switch.	Realign cart. Reset breakers. Make sure bar is bolted securely to cart. Check for correct plug alignment and shim rigid casters to properly align the plug with the cart receptacle. Repair and/or replace relay. Repair and/or replace receptacle. Repair switch on cart stall or refrigerator.
Trays hard to load into carts.	Damaged shelf support bracket.  Incorrect stacking of dishes, utensils, or domes.	Clean and/or replace damaged tray support bracket . Replace tray.
Entree or soup not hot at end of cycle.	Door safety switch has deactivated master.  Dome not positioned properly. Tray is not fully in place. Heater element malfunction. High temp alarm on retherm has deactivated master relay.	Refrigerator (roll-in) door was opened during rethermalization. Close door and repeat rethermalization. Place dome on correctly. Adjust so that it is locked in place. Replace heater element. Refrigerator cabinet temperature too high contact authorized service agent.

### VIII. PARTS LIST



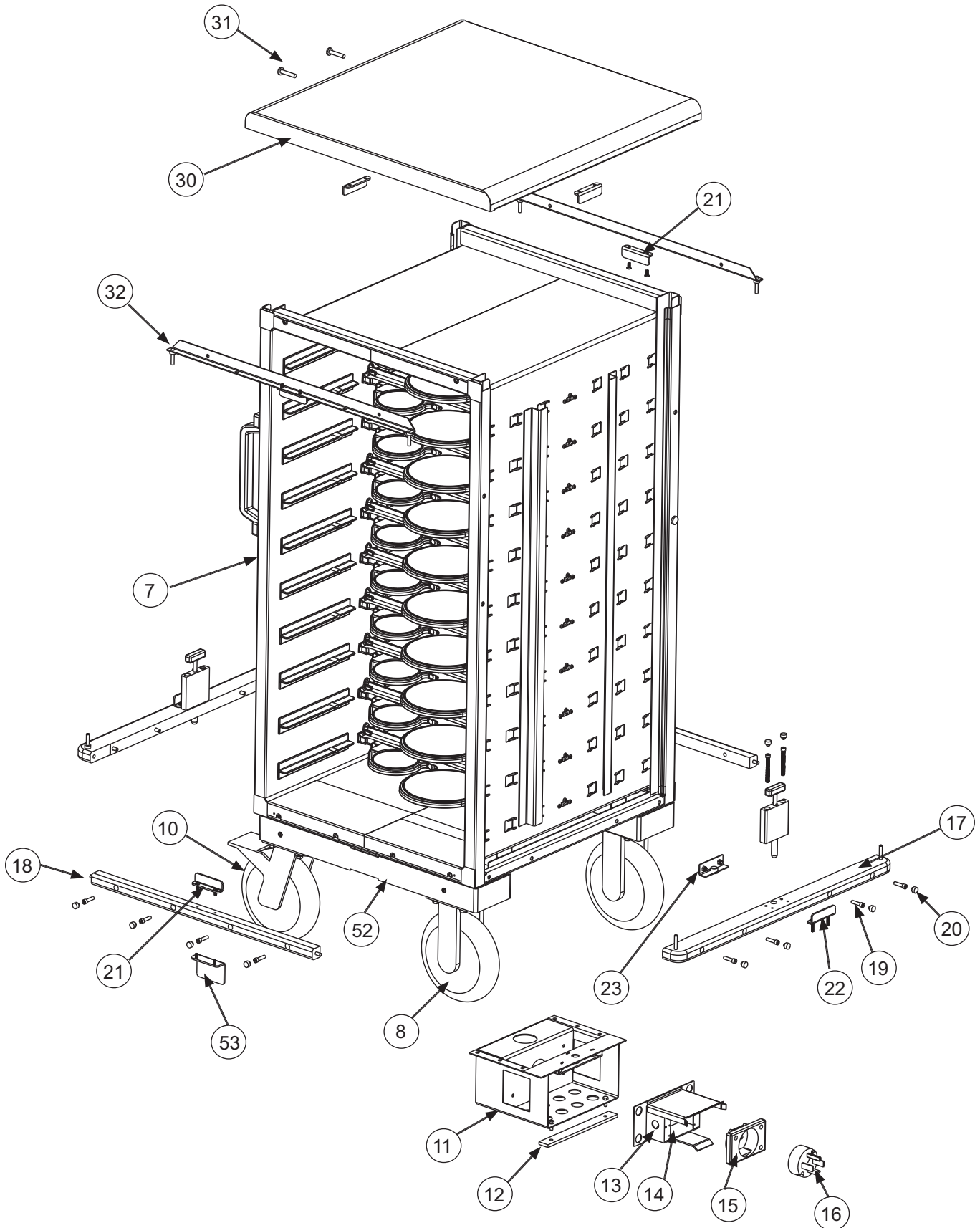
Heating Element Assembly

No.	Aladdin P/N	Description
1	11116	7" Face-Mounted Entree Pod (Gray Top)
2	11115	3" Face-Mounted Soup Pod (Gray Top)
3	97654	Crossbar for 7"/3" Face-Mounted Pods
4	34789	#10-32 X 3/4" S/S Bolt w/ Socket Hd, Nylock Coated
5	75378	#10-32 X 1" S/S Bolt w/ Socket Hd, Nylock Coated
6	98176	Screw cover (Gray Top)



Tow Hitch Assembly

Item NO.	Part #	Description	Cart size	Quantity
7	92051	Tank, C616S	16	1
7	92282	Tank, C620S	20	1
8	94398	Caster, 8 inch, rigid	ALL	2
9	94396	Direction Lock Plunger, for swivel caster	ALL	2
10	94397	Caster, 8 inch swivel, locking	ALL	2
11	92291	Box, plug mounting	ALL	1
12	92147	Bar, actuation - C6s / C7	ALL	1
13	39811	Weldment, slide base	ALL	1
14	11573	Box-J with holes	ALL	1
15	39326	Spacer, valox	ALL	1
16	39243	Plug, 14-30, 125V	ALL	1
17	12509	Bumper, base black- front/rear	ALL	2
18	12510	Bumper, base black-sides	ALL	2
19	92616	Bolt, 1/4-20x1", S/S, SHCS	ALL	16
20	92080	Plug, bumper, base, black	ALL	20
21	92300	Catch, S/S, magnetic door	ALL	8
22	92301	Catch, S/S, magnet w/o TW HT	ALL	2
23	92164	Bracket, wire protection	ALL	1
24	92056	Tongue, tow hitch, C7/C8	Option	1
25	92292	Receiver, tow hitch, C7/C8	Option	1
26	92058	Pin, spring, tow hitch, C7/C8	Option	2
27	92082	Bolt 1/4-20x2.1/4", S/S SHCS	Option	4
28	92078	Set screw 10-32x3/8", tow hitch	Option	1
29	92080	Plug spring pin, tow hitch	Option	4
30	92283	Panel, cover, top, C7	ALL	1
31	93839	Light, indicator, red, 120V	ALL	2
32	92285	Weldment, top attach bracket	ALL	2



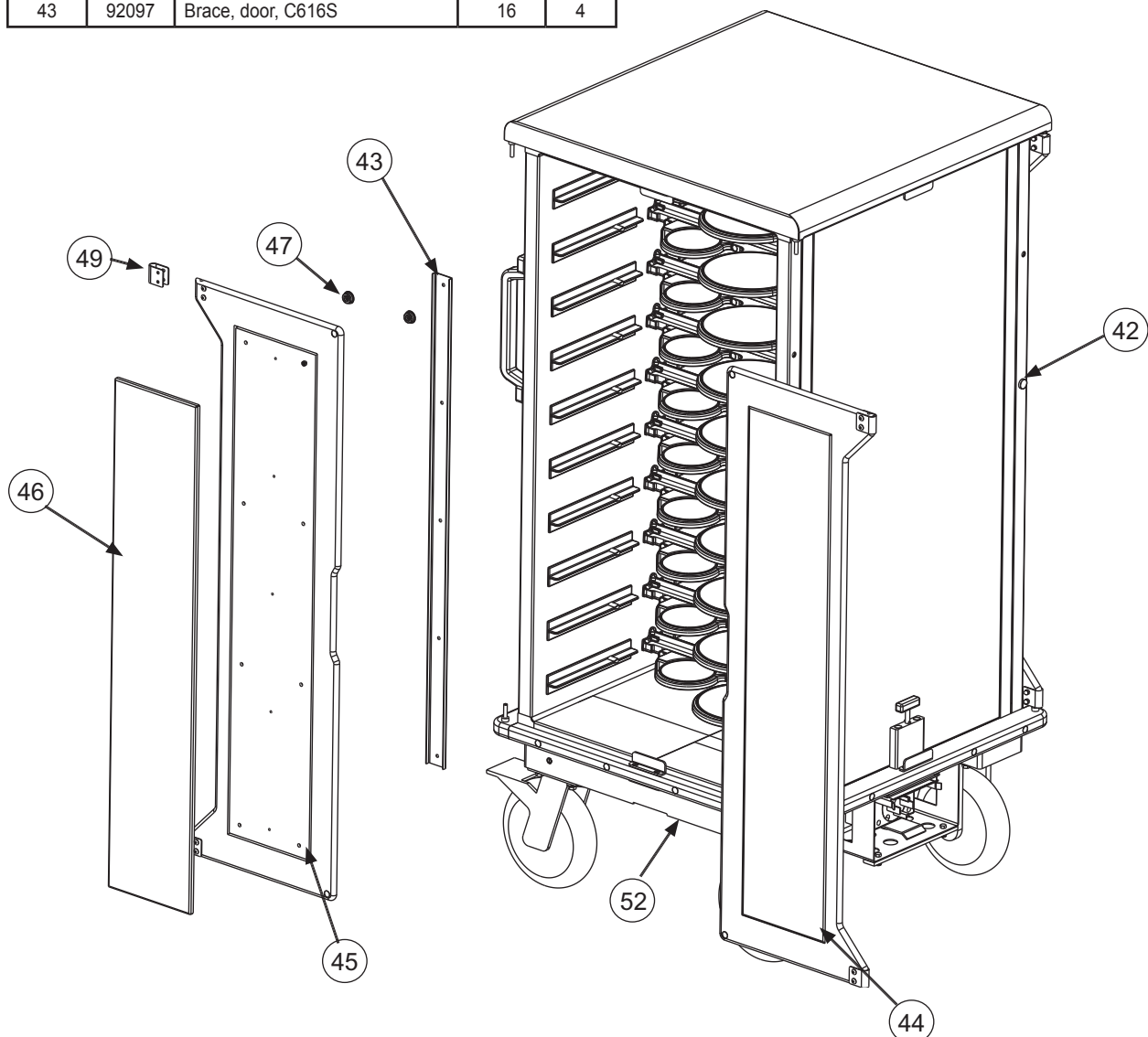
# C600S TRII EXCEL CARTS

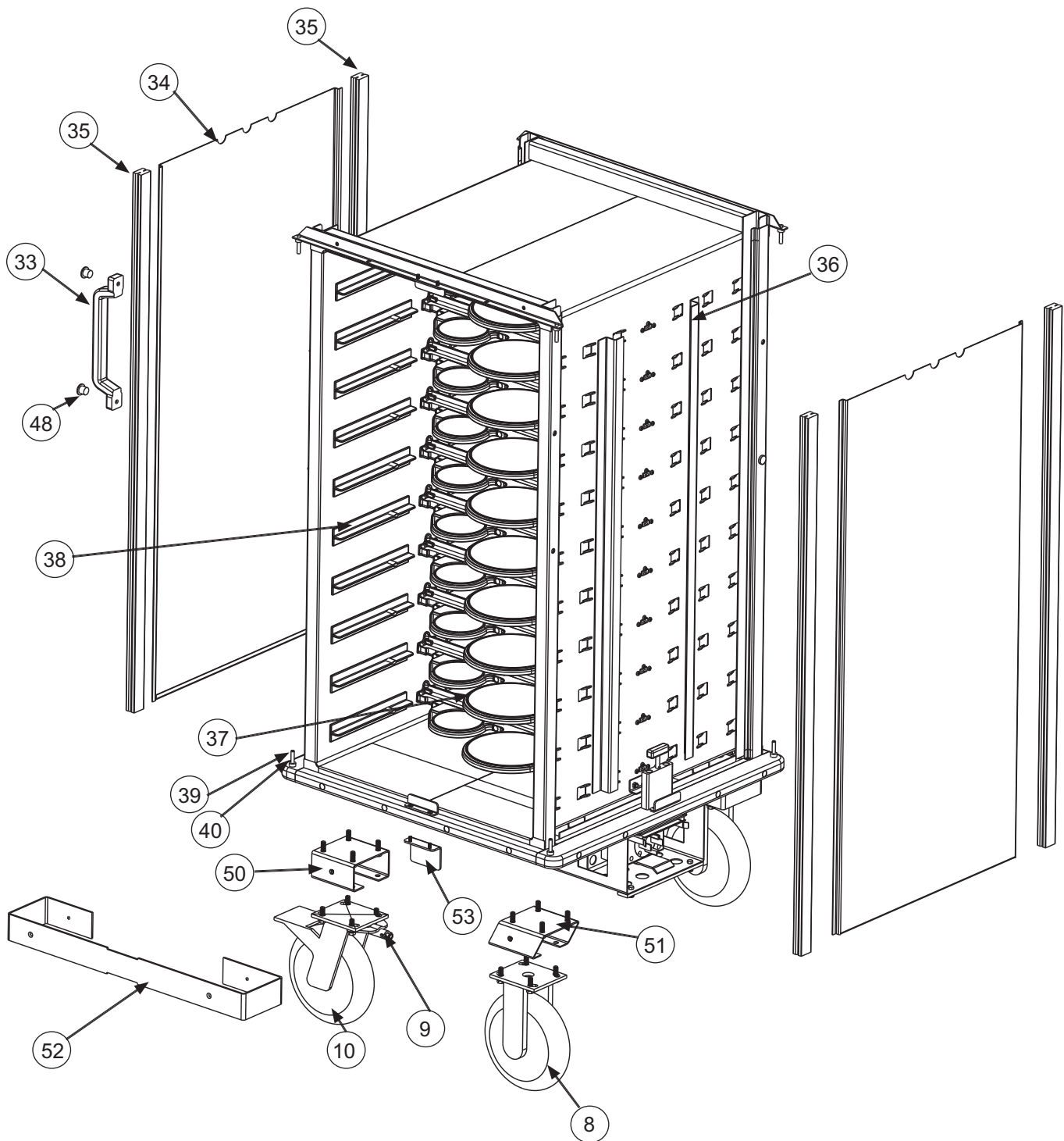
## Installation, Operation & Service Manual

Item No.	Part #	Description	Cart Size	Qty
33	34792	Handle, vertical, black	ALL	2
34	92296	Panel, cover, F/R, C616S	16	2
34	92284	Panel, cover, F/R, C620S	20	2
35	92071	Strip, trim, black, slide, C616S	16	4
35	92072	Strip, trim, black, slide, C620S	20	4
36	92940	Wireway channel, C616S	16	2
36	92941	Wireway channel, C620S	20	2
37	98351	Assy, pod, 7/3, 125V, FM	ALL	Varies
38	92565	Bracket, shelf support, 97 left	ALL	Varies
38	92565	Bracket, shelf support, 97 right	ALL	Varies
39	92059	Spacer, door, 1/4"	ALL	8
40	92305	Spacer, door, 1/16"	ALL	4
41*	92451	Bolt, 1/4-20x3/4", S/S, BTN HD	ALL	4
42	92444	Cover, screw, black, snap	ALL	4
43	92097	Brace, door, C616S	16	4

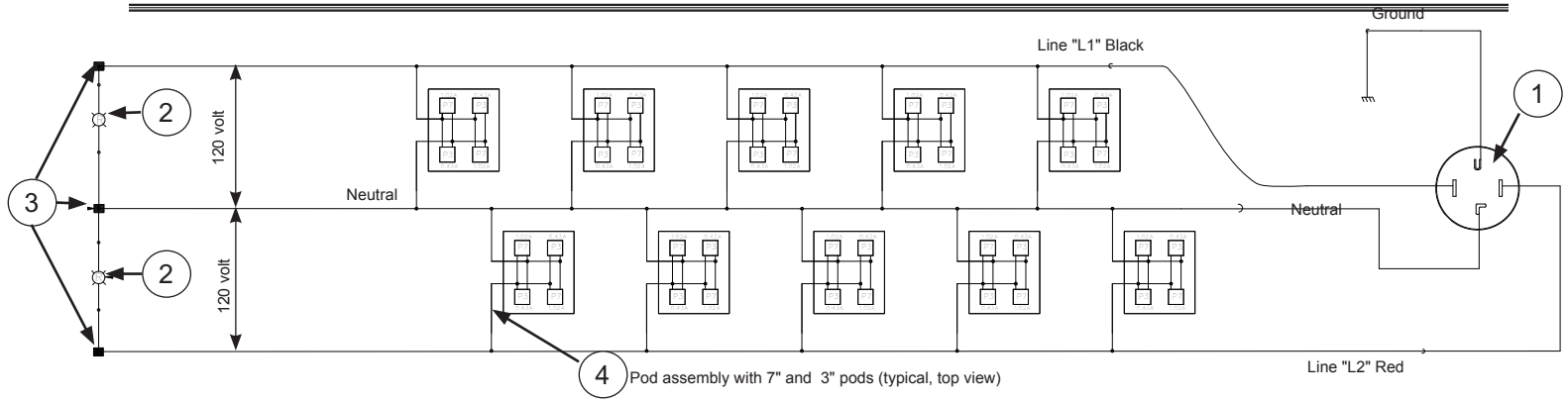
Item No.	Part #	Description	Cart Size	Qty
43	92098	Brace, door, C620S	20	4
44	92100	Panel, door, C616S, right	20	2
45	92101	Panel, door, C616S, left	16	2
44/45	92105	Panel, door, C620S, L/R	20	4
46	92094	Weldment, door decor, C616S	16	4
46	92287	Weldment, door decor, C620S	20	4
47	98488	Plug, 3/4", cart door, C7	ALL	Varies
48	34992	Plug for handle	ALL	4
49	10841	Sleeve, door hinge	ALL	8
50	12508	Back caster lift	ALL	2
51	12507	Front offset caster lift	ALL	2
52	12511	Shroud lift cover	ALL	2
53	12512	Shroud support bracket	All	2

\*Item not shown





### IX. WIRING DIAGRAM 20 SHELF



Item No	Part #	Qty	Description
1	39243	1	30A 4 wire, male plug hubbell
2	93839	2	Red neon indicator light (125 voc, 1/2W)
3	24981	3	Insulated crimp snow cap
4	98351	10	Pod assembly
5	35126	20	self-stripping tap/run wire connector tap size: 18-24 AWG run size: 12-10 AWG 3M CAT. # 567
6	35203 Male 39921 Female	4	Male/Female disconnect terminals (T & B "sta-kons") wire range: 18-14 AWG
7	24984	3	#10 terminal ring equipment ground terminated to base wire range: 12-10 AWG
8	75018	9 Ft.	#10 AWG, stranded copper, 600 volt, type THHN/THWN wire, color code black
9	75017	9 Ft.	#10 AWG, stranded copper 600 volt, type THHN/THWN wire,color code red
10	75016	9 Ft.	#10 AWG, stranded copper 600 volt, type THHN/THWN wire,color code white

Item No	Part #	Qty	Description
11	67168	1 Ft.	#10 AWG, stranded copper 600 volt, type THHN/THWN wire,color code green
12	75021	1 Ft.	#18 AWG, stranded copper 600 volt, type TFFN wire color code black
13	34779	1 Ft.	#18 AWG, stranded copper 600 volt, type TFFN wire color code white
14	39237	24	tubing, heat shrink 3/4" black
15	39171	4	tubing, heat shrink 1/2" black

Note: AWG - America Wire Gauge

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# X . WARRANTY & LIABILITY

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ALADDIN TEMP-RITE®  
EQUIPMENT  
LIMITED WARRANTY

Effective August, 2015

Aladdin Temp-Rite® (“ATR”) warrants to the original purchaser that the equipment listed below shall be free from defects in material and workmanship under normal use for the applicable warranty term set forth below. ATR’s obligation under this warranty is limited to the repair or replacement, at the sole option of ATR, of any part which upon inspection and examination by ATR or its authorized agent is found to be defective. A written description detailing the nature of the claimed defect, together with the equipment claimed to be defective if required by ATR, must be delivered to ATR or its authorized agent within 30 days of discovery of the claimed defect (but in no event later than 30 days after the expiration of the applicable warranty term).

EQUIPMENT	WARRANTY TERM*	
	PARTS	LABOR
C616S	1 year	1 year
C620S	1 year	1 year
Heating elements	2 years	NA

\*The warranty term commences 30 days after the date of ATR’s invoice for the equipment.

THE WARRANTIES AND REPRESENTATIONS OF ATR CONTAINED HEREIN ARE EXPRESSLY IN LIEU OF, AND THE BUYER WAIVES, ANY AND ALL OTHER WARRANTIES EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND ANY OTHER REMEDIES AGAINST ATR, WHETHER BASED UPON CONTRACT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE. ATR SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES OR ECONOMIC LOSS OF ANY NATURE (INCLUDING WITHOUT LIMITATION LOSS OF REVENUES AND/OR PROFITS) THAT MAY BE CLAIMED TO RESULT FROM ANY NEGLIGENCE OR BREACH OF WARRANTY OR CONTRACT BY ATR.

#### Exceptions and Exclusions

This warranty is issued only to the original purchaser, and is not transferable and applies only to the products installed within the United States of America, its territories and Canada. During the term of any labor warranty, ATR will pay all pre-approved shipping charges incurred in returning defective equipment to ATR and labor costs incurred in the removal and reinstallation of such equipment. Contact ATR before returning any defective equipment or otherwise performing any warranty repairs. ATR assumes no liability for any work or repair performed without its prior approval. After the expiration of any labor warranty, the original purchaser is responsible for all shipping charges incurred in returning defective equipment to ATR and labor for removing and reinstalling such equipment. ATR shall not be responsible for the replacement of expendable items like lamps and fuses or product failure resulting from normal wear and tear, improper installation, misuse, sabotage, abuse, neglect, accident, unauthorized alterations to repair, or other factors beyond the control of ATR. Neither this warranty, nor the liability of ATR may be modified or extended by action of any agent, distributor or other person or by custom or practice.

CALL ATR TOLL FREE AT 1-800-888-5426 IF YOU HAVE ANY QUESTIONS ABOUT THIS WARRANTY OR YOUR ATR PRODUCT.







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