

OPERATORS MANUAL

This manual provides
Installation & Operating instructions for

3400 & 34000 SERIES GAS HOT FOOD HOLDING UNIT



NOTIFY CARRIER OF DAMAGE AT ONCE.

It is the responsibility of the consignee to inspect the container upon receipt of same and to determine the possibility of any damage, including concealed damage. Randell suggests that if you are suspicious of damage to make a notation on the delivery receipt. It will be the responsibility of the consignee to file a claim with the carrier. We recommend that you do so at once.

Manufacture Service/Questions 888-994-7636.

Information contained in this document is known to be current and accurate at the time of printing/creation. Unified Brands recommends referencing our product line websites, unifiedbrands.net, for the most updated product information and specifications.



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Congratulations on your recent purchase of Randell food service equipment, and welcome to the growing family of satisfied Randell customers.

Our reputation for superior products is the result of consistent quality craftsmanship. From the earliest stages of product design, to successive steps in fabrication and assembly, rigid standards of excellence are maintained by our staff of designers, engineers, and skilled employees

Only the finest heavy-duty materials and parts are used in the production of Randell brand equipment. This means that each unit, given proper maintenance, will provide years of trouble free service to its owner.

In addition, all Randell food service equipment is backed by one of the best warranties in the food service industry and by our professional staff of service technicians

Retain this manual for future reference.

Notice: Due to a continuous program of product improvement, Randell Manufacturing reserves the right to make changes in design and specifications without prior notice.

Notice: Please read the entire manual carefully before installation.

If certain recommended procedures are not followed, warranty claims will be denied.

Dealer Name _____
Date Received _____
Model Number _____
Serial Number _____
Installation Date _____

Signature of Installer _____

Randell Manufacturing
Service and Parts
Hot Line
1-800-621-8560
or for our
Service Agent Listings
visit our web site at
www.randell.com

IMPORTANT

The information contained in this manual is important for the proper installation, use, and maintenance of this unit. Please read this manual carefully and retain it for future reference. Before placing this appliance in operation, contact your local gas provider as to what instructions are to be followed if you smell gas. The instructions obtained should then be posted in a prominent location.

For your Safety

If you smell gas:

1. Open windows.
2. **Do not** touch electrical switches, because sparks will ignite the gas.
3. Extinguish any open flames.
4. Immediately call gas supplier.

For your Safety

Do not store or use gasoline or other flammable vapors or liquids in the vicinity of or on this or any other appliance.

Warning: Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Read this installation, operating and maintenance instructions thoroughly before installing or servicing this equipment.

Note:

These appliances are specifically designed for commercial use and are not to be used for residential applications!

Important Safety instructions:

Installation of this hot food table must conform with local codes, or in the absence of local codes, with the national fuel gas code, ANSI Z223.1-1992 National fuel gas code, latest edition or Canadian codes CGA-B149.1-M91 (natural gas) or CGA-B149.2-M91 (propane). Make sure that the gas supply is the same type as that marked on the appliance data plate

1. Have your hot food table installed by a qualified installer or service technician.
2. Location: Do not locate your hot food table where it maybe subject to strong drafts. Make sure the openings of your unit that supply fresh air for combustion and ventilation are not obstructed. Make provisions for adequate air supply. Do not block off the air needed for proper ignition and combustion.

Note:

These units are provided with four adjustable legs to level the unit on uneven surface. Adequate clearance for servicing and proper operation is provided for the end user through the front of the cabinet.

Warranty Policies

Parts Warranty

Randell warrants all component parts of manufactured new equipment to be free of defects in material or workmanship, and that the equipment meets or exceeds reasonable industry standards of performance for a period of one year from the date of shipment from any Randell factory, assembly plant or warehouse facility

Note: Warranties are effective from date of shipment, with a thirty day window to allow for shipment, installation and set up. In the event equipment was shipped to a site other than the final installation site, Randell will warranty for a period of three months following installation, with proof of starting date, up to a maximum of eighteen months from date of purchase.

Component parts warranty does not cover glass breakage. Randell covers all shipping cost related to component part warranty sent at regular ground rates (UPS, USPS). **Freight or postage incurred for any express or specialty methods of shipping are the responsibility of the customer.**

Labor Coverage

In the unlikely event a Randell manufactured unit fails due to defects in materials or workmanship within the first ninety days, Randell agrees to pay reasonable labor incurred. During the first ninety days work authorizations are not required for in warranty repairs. However, repair times are limited to certain flex rate schedules and hours will be deducted from service invoices if they exceed allowed times without prior approval and a work authorization number. Warranties are effective from date of shipment, with a 30 day window to allow for shipment, installation and setup

Where equipment is shipped to any site other than final installation Randell will honor the labor warranty for a period of ninety days following installation with proof of starting date, up to a maximum of nine months from date of purchase. Travel time is limited to one hour each direction or two hours per invoice

Any travel time exceeding two hours will be the responsibility of the customer.

Export Warranty

Our export warranties will cover all non electrical parts for the period of one year from the date of shipment to be free of defects in material or workmanship. Electrical parts are also covered if ordered and operated on 60 Hz. Electrical components, ordered and operated on 50 Hz, are warranted for the first 90 days from shipment only. Service labor is covered for the first 90 days with authorization from factory prior to service. Warranty is automatically initiated 60 days from ship date. Inbound costs on any factory supplied items would be the responsibility of the customer. Adherence to recommended equipment maintenance procedures, according to the owners manual provided with each unit, is required for this warranty to remain in effect, and can have a substantial effect on extending the service life of your equipment. Equipment abuse voids any warranty. Extended warranties are not available for parts, or labor on units shipped outside the United States.

Freight Damage

Any and all freight damage that occurs to a Randell piece of equipment as a result of carrier handling is not considered warranty, and is not covered under warranty guidelines. Any freight damage incurred during shipping needs to have a freight claim filed by the receiver with the shipping carrier (note all damages on freight bill at time of delivery). Internal or concealed damage may fall under Randell's responsibility dependent upon the circumstances surrounding each specific incident and are at the discretion of the Randell in-house service technician

NOTICE: FOOD LOSS IS NOT COVERED UNDER WARRANTY

Unit Installation

A. Receiving Shipment

Upon arrival, examine the exterior of the shipping crate for signs of abuse. It is advisable that the shipping crate be partially removed, in order to examine the cabinet for any possible concealed damages which might have occurred during shipment. If no damages are evident, replace the crate in order to protect the unit during storage and local delivery. If the unit is damaged, it should be noted on the delivery slip or bill of lading and signed to that effect. A claim must be filed immediately against the carrier indicating the extent and estimated cost of damage occurred.

B. Normal Installation Steps

Step 1 - After the unit is uncrated, legs or casters, if shipped loose, must be attached with the bolts provided. They are to be attached to each corner. Holes are provided, the locking casters must be placed on each front corner of the unit.

NOTE:

Appliances with casters installation shall be made with a connector that complies with the standard for connectors for movable gas appliances, ANSI Z21.69 or the standard for connectors for gas appliances, CAN/CGA-6.16, and a quick disconnect device that complies with the standard for quick disconnect devices for use with gas fuel, ANSI Z21.41 or standard for quick disconnect devices for use with gas fuel, CAN1-6.9. Adequate means must be provided to limit the movement of the appliance without depending on the connector and the quick disconnect device or its associated piping to limit the appliance movement. The restraining means may be attached to the leg rails provided, or the square tubing provided on the rear of the unit.

Step 2 - Provide adequate gas supply

The hot food table is designed to operate at a pressure of 3.5 inches of water column for natural gas or, if designed for LP gas, 11 inches of water column. Make sure the unit is supplied with the type of gas specified on its data plate. For proper operation the pressure of natural gas supplied to the regulator must be between 4 and 13 inches of water column. For LP gas, the pressure supplied must be between 10 and 13 inches of water column. When checking for proper operation of the regulator, the inlet pressure must be at least 1" greater than the operating (manifold) pressure as given above.

Step 3 - Connect the hot food table to gas

Shut off the main gas supply and leave it off until new hookup has been completed. Use an AGA certified flexible metal gas line, unless local codes require a hard pipe connection, to prevent gas leaks, wrap pipe thread with teflon tape or put pipe joint compound on all male (external) pipe threads.

NOTE: Check all connections and fittings on valves and tubing supplied as a part of this unit, to make sure that none of them has come loose during shipment. Also, a ground joint union should be provided between the house plumbing and the gas inlet of the appliance. All plumbing should be clean and free of burrs and metal shavings.

1. Install a manual gas line shut off valve in an easily accessible location.
2. Install a male 1/2" flare union adapter to the 1/2" NPT internal thread at inlet of pressure regulator.
3. Install male 1/2" or 3/4" flare union adapter to the NPT internal thread of the manual shut-off valve to keep it from turning.
4. Connect flexible metal base line to the adapter on the hot food table to permit connection at the shut off valve.
5. When all connections have been made, make sure all controls are in the off position and turn on the main gas supply valve. Use a liquid leak detector at all joints and connections to check for leaks in the system.

CAUTION: DO NOT USE A FLAME TO CHECK FOR GAS LEAKS

NOTE: On the 3400 series the burner head must be removed from the box and placed on the burner end, the side with grooves point down, this box will also be placed in the hot food well opening, on the top of the unit. Install appliance with a minimum of 1" of clearance to the back and to the sides of any type of combustible and/or noncombustible construction. Also, in order to obtain an adequate air supply to the burners for proper combustion a minimum of 6" clearance must be held between the burner assembly and noncombustible products on the bottom shelf of the appliance.

Step 3 - Operational check of burners

Operation of all burners should be checked after the hot food table and gas supply lines have been carefully checked for leaks. Turn on burner control, once the air is purged from the supply line light the burner. Try each burner in succession until all burners have been checked. To adjust pilot flame, turn the pilot valve screw slowly, with a small screwdriver, until a blue flame with a small yellow tip is obtained. Repeat procedure for all remaining pilots.

Quality of flames: The combustion quality of burner flames needs to be determined visually

- a. Yellow flame - Call for service
- b. Yellow tips on outer cones - Normal for LP gas
- c. Soft blue flames - Normal for natural gas

Note: If the burner flame is yellow call for service. Normal burner flames should have yellow tips or soft blue flames depending on type of gas you use. With LP gas, some yellow tipping on the outer cone is normal.

D. Installation Checklist

After the final location of the unit has been determined refer to the following checklist prior to start up:

1. Check all wiring to ensure that there are no kinked, bare, or loose wires.
2. Check that unit is properly leveled
3. Refer to the front of this manual for serial number location. Please record this information in your manual on page 3 now. It will be necessary when ordering replacement parts or requesting warranty service.
4. Confirm that unit is holding temperature. Set controls to desired holding temperature.
5. Check unit for any signs of leaking.

NOTE: All pipe connections should be made using a pipe joint compound resistant to the action of propane and natural gases. A drip tee must be used to collect any moisture or dirt in the gas.

NOTE: A manual shut off valve has been installed on the incoming gas supply line, on the appliance, to allow complete shut down during servicing. This appliance must be isolated from the gas supply line system by closing its manual shut off valve during any pressure testing of the gas supply piping system at test pressure equal to or less than 1/2 PSIG (3.45 KPA).

NOTE: The appliance and its individual shut off valve must be disconnected from the gas piping system during any pressure testing of that system at the pressures in excess of 1/2 PSI (3.45 kPa).

Lighting and shut down procedures

Only after the pilot flame has been adjusted, and found satisfactory, by turning one of the burner knobs counter clockwise, the main burner will ignite. Always make sure the burner has lit properly from the pilot by looking directly at the burner. Repeat this procedure for the rest of the burners.

Electrical information: When a unit has an electrical hook up, the wire diagram will be located beside the junction box. When a flexible cord is provided to connect the appliance to a line voltage electrical supply, it will bear a class VI marking attached to the plug end of the cord stating:

Warning! this appliance is equipped with a three prong grounding plug for your protection against shock hazard and should be plugged directly into a properly grounded three prong receptacle. Do not cut or remove the grounding prong from this plug.

The appliance, when installed, must be electrically grounded in accordance with local codes, with the NEC, ANSI/NFPA 70 or the CAN/CSA C22.1, as applicable. Disconnect the power supply to the appliance before cleaning or servicing, if applicable.

Unit Operation

Pilot lighting instructions

Shut off all manual gas valves, located on the front panel

Open main valve on gas supplyline.

Depress red button on safety valve, while holding button in, light pilot using a lighting wand.

Hold button in for approximately 1 minute, until pilotflame stays lit.

NOTE: If pilot or burner goes out, turn off all gas and wait 5 minutes before attempting to relight

Preheating Instructions for 3400 and 34000 series HFT tables

All units are designed for 145° to 175° operation or 150° to 175° product temperature. Fill water compartment with a minimum of 2" of hot water. Water is necessary to operate these units. Failure to use water or allowing tank to run dry will damage unit and void warranty.

Turn valve knobs to high for 15 to 30 minutes. Pan openings should be covered to shorten preheat time and to prevent unnecessary loss of heat.

Note: Excessive heat may dry out food

Note: Drains must be plumbed to all applicable local code requirements.

Caution: Moisture collecting from improper drainage can create a slippery surface on the floor and a hazard to employees. When making electrical connections refer to the amperage data listed on the units data plate. Your local code or the national electrical code handbook to be sure the unit is connected to the proper power source.

Preventive Maintenance

Randell strongly suggests a preventive maintenance program which would include the following **Monthly** procedures:

1. Clean your hot food unit with a solution of warm water and a mild detergent. The stainless steel portion of your unit can be polished with any quality polish.
2. Drain water from wells daily and wipe them out. Clean wells thoroughly twice a week to help insure a longer life for your wells.

Note: Do not use chemicals, steel wool or scrapers to clean unit.

Caution: Do not use abrasive cleaning solvents.

Try to prevent spilling when handling the food containers. Spilled food should be cleaned immediately, to prevent drying and burning, which may cause an odor.

Proper maintenance of equipment is the ultimate necessity in preventing costly repairs. By evaluating each unit on a regular schedule you can often catch and repair minor problems before they completely disable the unit and become burdensome on your entire operation. For more information on preventive maintenance consult your local service company or www.CFESA.com. Most repair companies offer this service at very reasonable rates to allow you the time you need to run your business along with the peace of mind that all your equipment will last throughout its expected life. These services often offer guarantees as well as the flexibility in scheduling of maintenance for your convenience. Randell believes strongly in the products it manufactures and backs those products with one of the best warranties in the industry. We believe with the proper maintenance and use you will realize a profitable return on your investment and years of satisfied service.

Access for servicing:

By removing the control panel located directly behind the control knobs, you will be able to service all components. There are four screws located underneath the plate shelf. By removing these four screws, and by removing the control knobs, the control panel may be removed for servicing.


Trouble Shooting Guide for Gas Hot Food Tables:

| PROBLEM | POSSIBLE CAUSES | REMEDY |
|--|---|---|
| Burners do not light or burn evenly. | <ol style="list-style-type: none"> 1. Burner holes may be clogged. 2. Burners may not be fitted correctly. | <ol style="list-style-type: none"> 1. Clean burner. Make sure not to enlarge holes. 2. Remove and reinstall properly. |
| Burners have yellow or yellow tipped flames. | <ol style="list-style-type: none"> 1. Unknown | <ol style="list-style-type: none"> 1. Call service agency. |
| Strong order | <ol style="list-style-type: none"> 1. Improper air/gas mixture. | <ol style="list-style-type: none"> 1. Adjust burner air shutter. |
| Unit will not heat | <ol style="list-style-type: none"> 1. Thermostat off 2. Pilot not lit 3. Gas Valve off 4. Unknown | <ol style="list-style-type: none"> 1. Turn on 2. Light pilot 3. Turn on 4. Call service agency |
| Burner flames very large or yellow. | <ol style="list-style-type: none"> 1. Out of adjustment | <ol style="list-style-type: none"> 1. If LP check all steps in the installation instructions. |

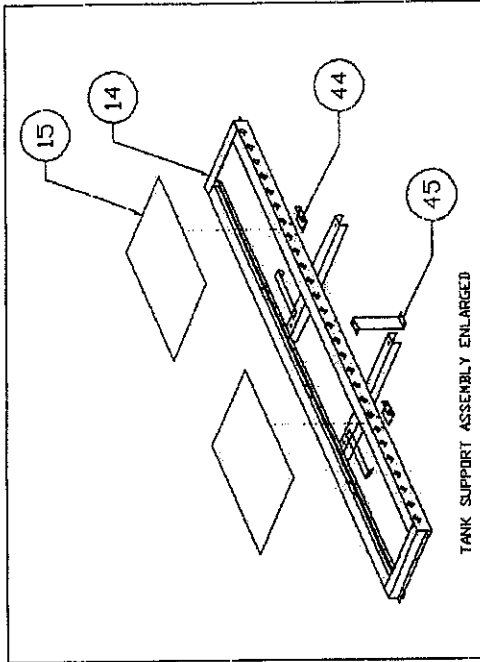
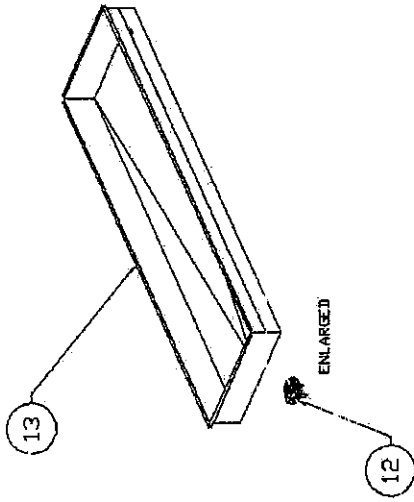
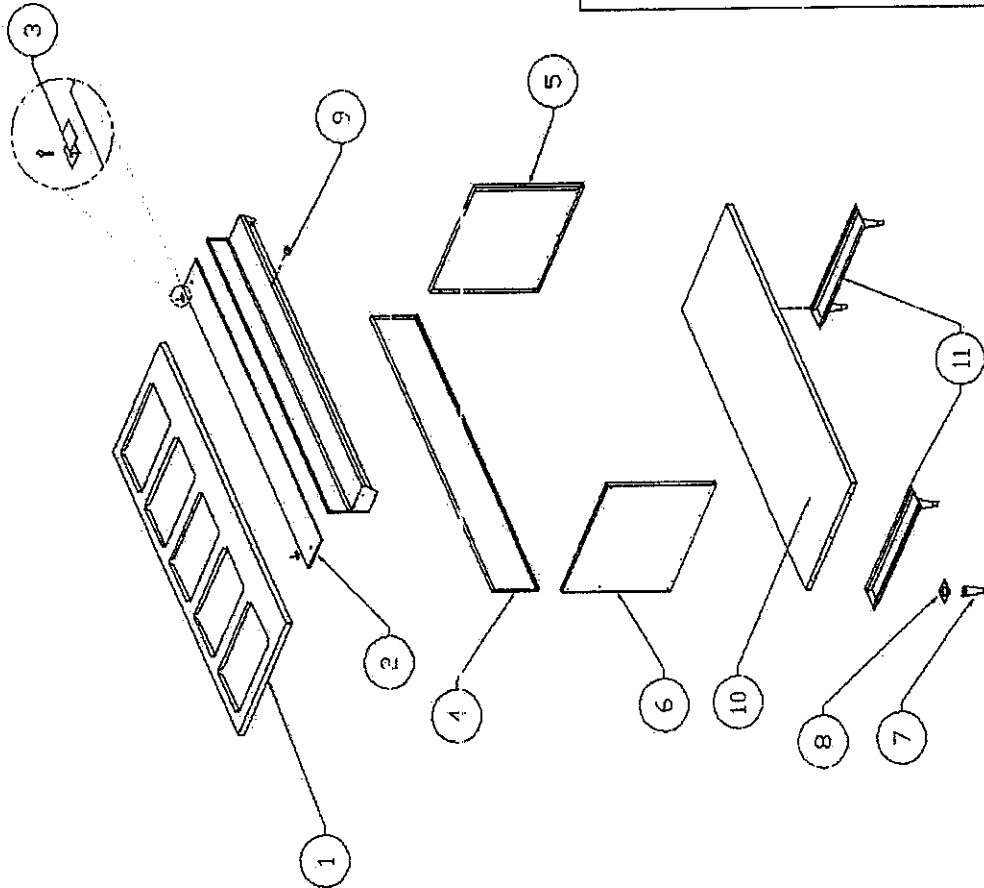
PARTS LIST
FOR
RANDELL
3400 SERIES


GAS HOT FOOD TABLE 3400 SERIES

| ITEM | DESCRIPTION | PART NUMBER | ITEM | DESCRIPTION | PART NUMBER | ITEM | DESCRIPTION | PART NUMBER | ITEM | DESCRIPTION | PART NUMBER | PART NUMBER |
|------|----------------------------------|-------------|------|------------------------------------|-------------|------|-----------------------------|-------------|------|-----------------------------|-------------|-------------|
| 1A | TOP, 2 WELL (30"X33") | RP-TOP3312 | 14D | TANK SUPPORT ASSY - 3415 | RP SPT0106 | 41B | THREADED ORIFICE, NAT GAS | RP SPT0106 | 41B | THREADED ORIFICE, NAT GAS | 41B | HD GAS0201B |
| 1B | TOP, 3 WELL (30"X48") | RP-TOP3313 | 15 | PLATE, HEAT DIFFUSION | RP PLT0102 | 42 | MIXING CHAMBER | RP PLT0102 | 42 | MIXING CHAMBER | 42 | HD GAS1200A |
| 1C | TOP, 4 WELL (30"X63") | RP-TOP3314 | 16 | VALVE, 1" THD GATE | PB VLV1000 | 43 | BURNER, 4" DIA | PB VLV1000 | 43 | BURNER, 4" DIA | 43 | HD GAS1200B |
| 1D | TOP, 5 WELL (30"X78") | RP-TOP3315 | 17 | VALVE, SAFETY (JOHNSON CTRH17DB-5) | HD GAS175 | 44 | BRACKET, MANIFOLD | HD GAS175 | 44 | BRACKET, MANIFOLD | 44 | |
| 2A | CUTTING BOARD, 7/16" POLY, 8X33 | RP-CPH0833 | 18 | THERMOCOUPLER K15DA-24 | HD GAS524 | 45 | BRACKET, INLET PIPE SUPPORT | HD GAS524 | 45 | BRACKET, INLET PIPE SUPPORT | 45 | |
| 2B | CUTTING BOARD, 7/16" POLY, 8X48 | RP-CPH0848 | 19 | BRACKET, PILOT J641DHA-i | HD GAS641 | | | HD GAS641 | | | | |
| 2C | CUTTING BOARD, 7/16" POLY, 8X63 | RP-CPH0863 | 20 | VALVE, SHUT OFF 1/2" | PB VLV500 | | | PB VLV500 | | | | |
| 2D | CUTTING BOARD, 7/16" POLY, 8X78 | RP-CPH0878 | 21 | VALVE, PILOT | HD GAS651 | | | HD GAS651 | | | | |
| 3 | CLIP, 1/2" CUTTING BOARD | RP-CLP001 | 22 | KNOB, COCK VALVE | HD HAN542 | | | HD HAN542 | | | | |
| 4A | PANEL, REAR 2 WELL (11.5"X30.5") | RP-PNL0106 | 23 | VALVE, GAS COCK | HD GAS645 | | | HD GAS645 | | | | |
| 4B | PANEL, REAR 3 WELL (11.5"X45.5") | RP-PNL0107 | 24A | BURNER, LP PILOT | HD GAS710 | | | HD GAS710 | | | | |
| 4C | PANEL, REAR 4 WELL (11.5"X60.5") | RP-PNL0108 | 24B | BURNER, NAT GAS PILOT | HD GAS721 | | | HD GAS721 | | | | |
| 4D | PANEL, REAR 5 WELL (11.5"X75.5") | RP-PNL0109 | 25 | NIPPLE, 6" X 1/2" DIA | PR NIP560 | | | PR NIP560 | | | | |
| 5 | SIDE, RIGHT | RP-SID0103 | 26 | NIPPLE, 12" X 1/2" DIA | PB NIP645 | | | PB NIP645 | | | | |
| 6 | SIDE, LEFT | RP-SID0104 | 27 | NIPPLE, 4" X 1/2 DIA | PB NIP540 | | | PB NIP540 | | | | |
| 7 | LEG | HD LEG010 | 28 | CAP, BLK 1/2" | PB CAP500 | | | PB CAP500 | | | | |
| 8 | PLATE, LEG | HD PLT010 | 29 | ELBOW, 1/2" STREET | PB ELB501 | | | PB ELB501 | | | | |
| 9 | KNOB, CONTROL | HD KNB003 | 30 | TEE, BLK 1/2" | PB TEE500 | | | PB TEE500 | | | | |
| 10A | SHELF, BOTTOM 2 WELL (29"X32.5") | RP-SHL0103 | 31 | ELBOW, BLK 1/2" 90' | PB ELB500 | | | PB ELB500 | | | | |
| 10B | SHELF, BOTTOM 3 WELL (29"X47.5") | RP-SHL0104 | 32 | NIPPLE, 8" X 3/4" | | | | | | | | |
| 10C | SHELF, BOTTOM 4 WELL (29"X62.5") | RP-SHL0105 | 33 | COUPLER, 3/4" | PB CPL080 | | | PB CPL080 | | | | |
| 10D | SHELF, BOTTOM 5 WELL (29"X77.5") | RP-SHL0106 | 34 | ELBOW, 3/4" STREET | PB ELB751 | | | PB ELB751 | | | | |
| 11 | CHANNEL, LEG | RP CHN0101 | 35A | TUBE, ALUM 380MM X 1/4" DIA | RP TUB0101 | | | RP TUB0101 | | | | |
| 12 | DRAIN STRAINER | RP DSN001 | 35B | TUBE, ALUM 380MM X 1/4" DIA | | | | | | | | |
| 13A | TANK 2 WELL (3412) 27" LONG | RP TNK312 | 36A | REGULATOR, NAT GAS | HD GAS800 | | | HD GAS800 | | | | |
| 13B | TANK 3 WELL (3413) 42" LONG | RP TNK313 | 36B | REGULATOR, LP GAS | HD GAS800LP | | | HD GAS800LP | | | | |
| 13C | TANK 4 WELL (3414) 57" LONG | RP TNK314 | 37 | VENT CAP | HD GAS801 | | | HD GAS801 | | | | |
| 13D | TANK 5 WELL (3415) 72" LONG | RP TNK315 | 38 | NIPPLE, 1/2" X CL BLK | PB NIP500 | | | PB NIP500 | | | | |
| 14A | TANK SUPPORT ASSY - 3412 | RP SPT0103 | 39 | BUSHING, 1/2 X 1/8" REDUCING | PB BSH512 | | | PB BSH512 | | | | |
| 14B | TANK SUPPORT ASSY - 3413 | RP SPT0104 | 40 | PLUG, 1/8" SQ HD PIPE | PB PLG018 | | | PB PLG018 | | | | |
| 14C | TANK SUPPORT ASSY - 3414 | RP SPT0105 | 41A | THREADED ORIFICE, LP | HD GAS0102A | | | HD GAS0102A | | | | |

Associated Files: Miscellaneous Add-ons
 File Number: _____

 Date: 5/16/01
 Revision: A
 Date: 4-23-01 - CC
T35-3100A

3400 SERIES

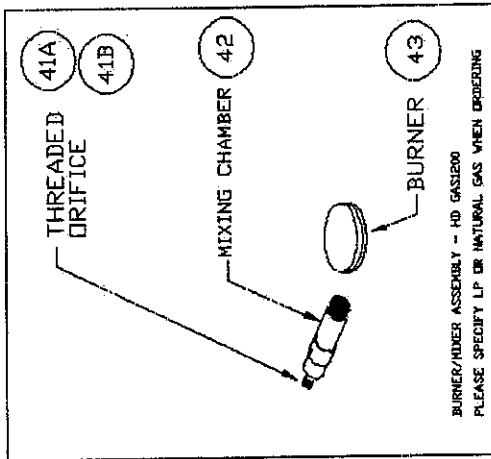
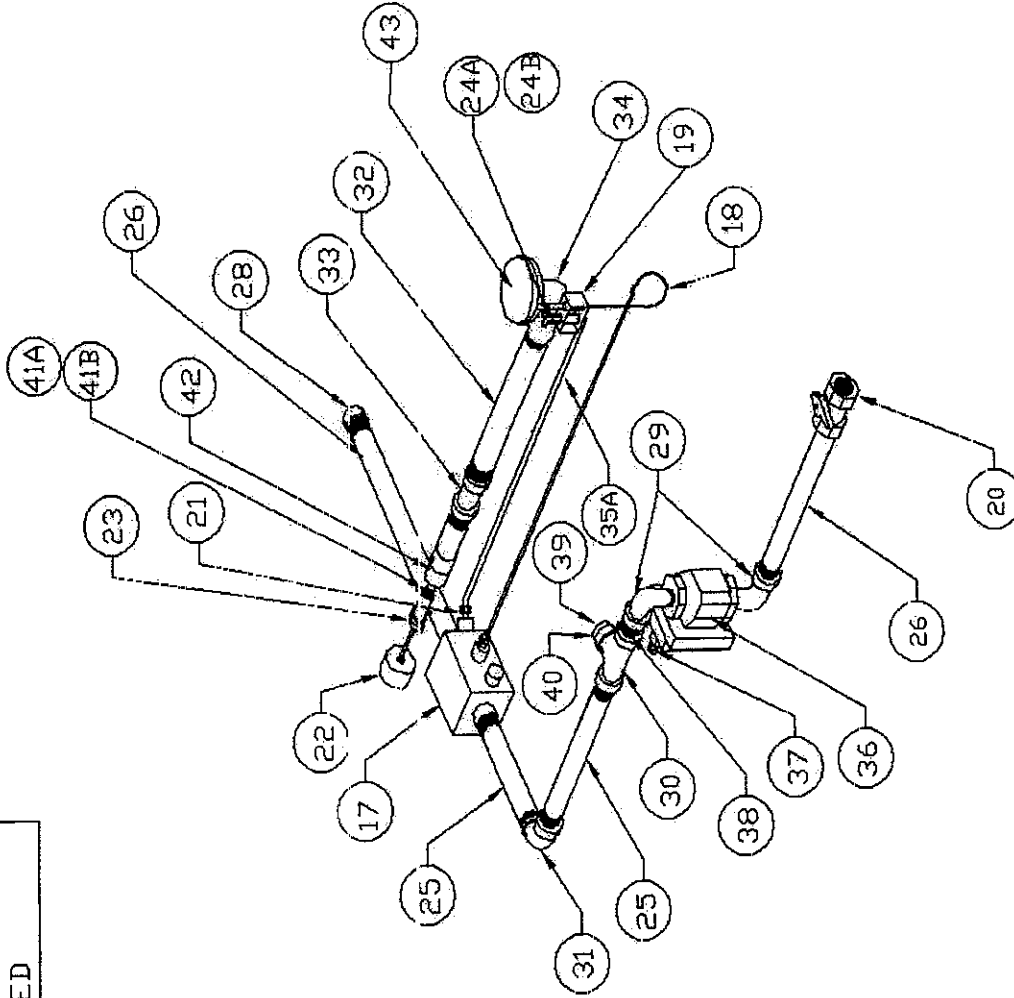


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|---|--------------------|---------------|-------------------------|
|  | GAS HOT FOOD TABLE | | T35-3100B |
| | DATE: 3-20-01 | Revision A | (REV. DATE) 00/00/00 |

3400 SERIES

CONTROL COPY (1)
ENG APPROVED

**GAS MANIFOLD
UNITS 3412 & 3413**



BURNER/MIXER ASSEMBLY - HD GAS/200
PLEASE SPECIFY LP OR NATURAL GAS WHEN ORDERING

Date: 05/16/01
Revision: A
Date - XX: XX/XX/XX - CC

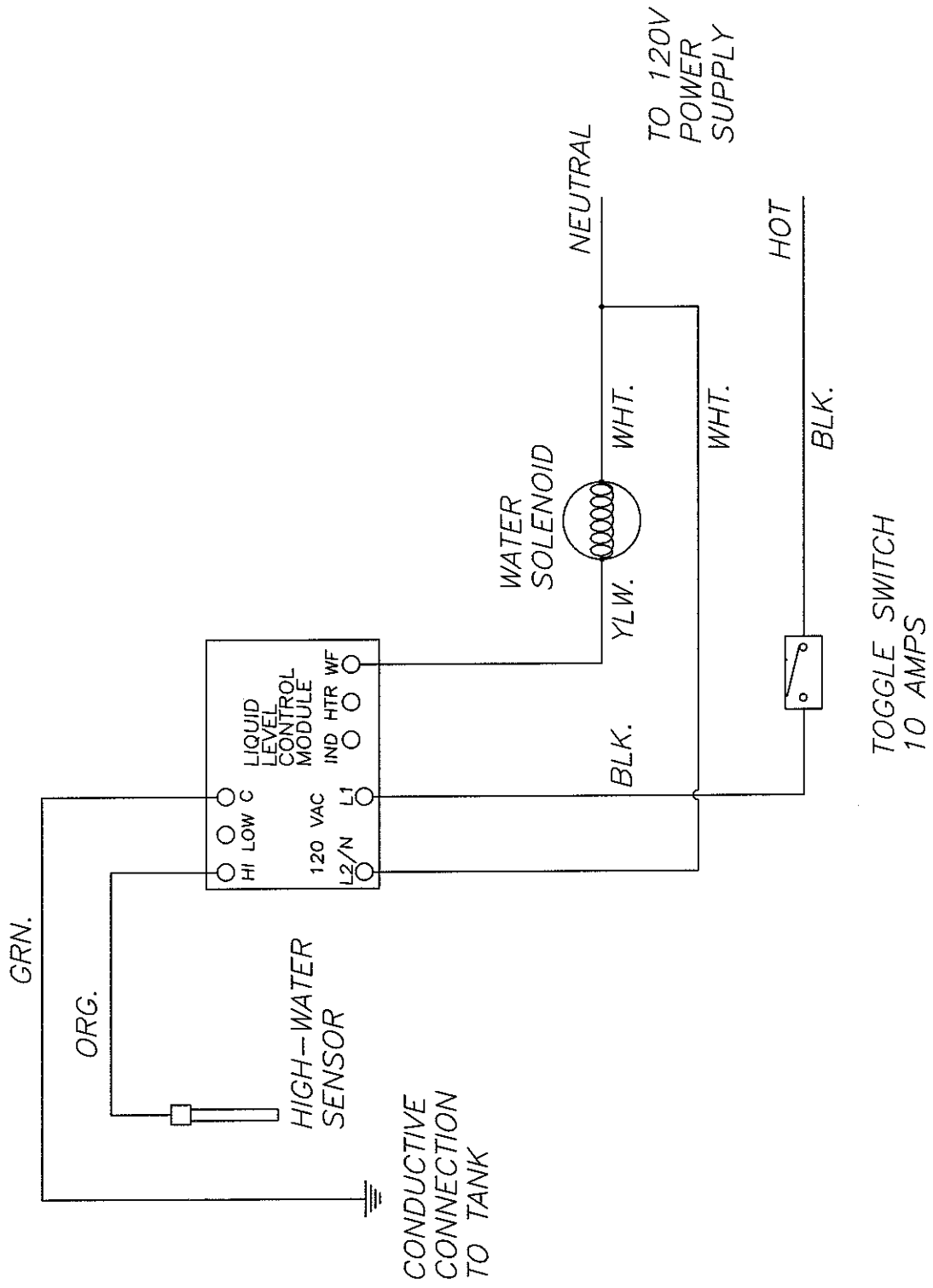
T35-3100C1



**GAS HOT FOOD TABLE
MANIFOLD ASSEMBLY - 3412 & 3413**

Associated Files:

FILE NUMBER
T35-3100A
T35-3100B
T35-3100C2



| | | | | |
|---|--|--------------|--|-------------------|
| ELECTRICAL DIAGRAM | | DATE 8-13-97 | RANDELL MANUFACTURING INC. 520 SOUTH COLDWATER ROAD WEIDMAN, MICHIGAN 48893 | |
| AUTO FILL; GAS HFV/ ELECTRIC (NO CUT OUT) | | REV | SCALE N/A | BY S. BYERS |
| | | REV | | FILE NO. EL-00020 |