

MODEL NUMBERS MWE-9501 MWEH-9501 MWEF-9501 MWEL-9501 MWER-9501 MWEFH-9501







SERVICE MANUAL MANUFACTURED EXCLUSIVELY FOR McDonald's BY GARLAND COMMERCIAL INDUSTRIES, INC. 185 EAST SOUTH STREET FREELAND, PENNSYLVANIA 18224 TOLL FREE: (800) 446-8367 PHONE: (570) 636-1000 FAX: (570) 636-9874 Come visit us on the web at <u>www.garland-group.com</u> E-mail: clamshell@garland-group.com



NOTE: This manual pertains to all grill models listed above. The reader/operator must interpret its contents to applicable needs. However, if there is any question of interpretation of any literature pertaining to Garland grills, please contact our Customer Service Department at one of the phone numbers listed above.

WARNING:

IMPROPER INSTALLATION, ADJUSTMENT, ALTERATION, SERVICE OR MAINTENANCE CAN CAUSE PROPERTY DAMAGE, INJURY OR DEATH. READ THE INSTALLATION, OPERATING AND MAINTENANCE INSTRUCTIONS THOROUGHLY BEFORE INSTALLING OR SERVICING THIS EQUIPMENT.

PLEASE READ ALL SECTIONS OF THIS MANUAL AND RETAIN FOR FUTURE REFERENCE.

CAUTION: THIS EQUIPMENT MUST ONLY BE OPERATED UNDER AN APPROVED HOOD SYSTEM

THIS EQUIPMENT "MUST" BE INSTALLED AND COMMISSIONED BY A PROFESSIONAL FACTORY TRAINED TECHNICIAN





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WARRANTY

This warranty covers defects in material and workmanship under normal use providing that:

a) the equipment has not been accidentally or intentionally damaged, altered or misused.

b) the equipment is properly installed, adjusted, operated and maintained in accordance with national and local codes and in accordance with the installation instructions provided with this product.

c) the warranty serial number affixed to the appliance by us has not been defaced, obliterated or removed.

d) an acceptable report for any claim under this warranty is supplied to us.

The equipment warranty coverage remains in force for one (1) year (parts and labor) from the date the equipment is put into operation and two (2) years (parts only) for the microprocessor controller, motor speed controller and upper platen (aluminum casting and shroud).

The Garland Group agrees to repair or replace, at it's option, any part that proves to be defective in material or workmanship at no charge for the part or normal labor.

We assume no responsibility for installation, adjustments, diagnosis, or normal maintenance such as: lubrication of springs or valves. We exclude failures caused by erratic voltage or gas supplies. We assume no responsibility for travel costs beyond 100 miles round trip, travel other than overland, and overtime costs of repair. We exclude broken glass, paint and porcelain finish, surface rust, gasket material, ceramic material, light bulbs and fuses from normal coverage. We exclude damage or dysfunction caused by fire, flood, and like "Acts of God" that are beyond the control of The Garland Group.

The Garland Group's liability on a claim of warranty shall not exceed the price of the material and/or service, which caused the claim. This warranty is limited and is in lieu of all other warranties, expressed or implied. The Garland Group, our employees, or our agents shall not be held liable for any claims of personal injury or consequential damage or loss. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

INTRODUCTION

The Garland clamshell grill, manufactured exclusively for McDonald's, provides a method for efficient two-sided cooking, while accommodating a variety of products. The unit will also serve as a flat grill, and meets all of McDonald's standards for safety, efficiency, and cleanliness.

SAFETY

Always follow these safety precautions when operating the clamshell grill.

THIS GRILL MUST be operated by persons who have been given adequate training.

CAUTION: THIS EQUIPMENT MUST ONLY BE OPERATED UNDER AN APPROVED HOOD SYSTEM.

DO NOT OPERATE THE GRILL UNLESS IT HAS BEEN COMMISSIONED (START-UP) BY A FACTORY AUTHORIZED SERVICE CENTER.

DO NOT operate the grill without reading this operation manual.

DO NOT operate the clamshell grill unless it has been properly installed and grounded.

DO NOT operate the clamshell grill unless all service and access panels are in place and fastened properly.

The Garland clamshell grill is a semi-automatic cooking appliance. The upper platen is lowered automatically, following the manual; two-handed initiation of the cooking cycle, and the upper platen is raised automatically upon completion of the cooking cycle.

When two sided cooking, the area between the upper platen and the griddle plate should be regarded as a "danger zone". During two sided cooking the operator must not be within this danger zone. When used as a flat grill, then this area is no longer a danger zone, the platens do not move.

For whatever reason, be it cleaning, maintenance, normal operation, any exposed person must use extreme caution if within this danger zone.

In two side cooking the upper platen remains in the lowered position by nature of it's own weight. It is not locked down. It can be raised by lifting of the handle on the front of the platen, which pivots the platen about its rear mounting point.

The clamshell grill may during its operation emit airborne noise equivalent to a continuous A weighted sound pressure level of 73dB(A).

The clamshell grill must only be used for single and two sided cooking of foodstuffs in a McDonald's store and must not be used for any other purpose.

WARNING: To avoid serious personal injury:

DO NOT attempt to repair or replace any part of the clamshell grill unless all main power supplies to the grill have been disconnected.

USE EXTREME CAUTION in setting up, operating and cleaning the clamshell grill to avoid coming in contact with hot grill surfaces or hot grease. Suitable protective clothing should be worn to prevent the risk of burns.

WARNING: This appliance must not be cleaned with a water jet. DO NOT apply ice to a HOT grill surface.

NOTE: All warning labels and markings on the grill, which call attention to further dangers and necessary precautions.

HAZARD COMMUNICATION STANDARD, (HCS) -The procedures in this manual include the use of chemical products. These chemical products will be printed in bold face, followed by the abbreviation (HCS) in the text portion of the procedure. See the Hazard Communication Standard, (HCS) manual for the appropriate Material Safety Data Sheet(s), (MSDS).

WARNING: After turning the master power switch to the START position, the grill will go through an initialization process. If the upper platens are in the lowered position they will return to their raised upper position. This movement takes approximately 8 seconds.

MAINTENANCE - the platen support arms carriage block bearing bushes, the platen adjuster nuts, the platen support (shoulder) bolt and the cam follower should be checked annually for wear. Should there be any noticeable play in the bearing bushes and any visible wear on the platen adjuster nuts, platen support bolts or cam follower, then they must be replaced.

MAINTENANCE - the audible alarm that sounds on platen lowering, platen raising and 5 seconds before the completion of the cooking cycle is to advise the operator that the platen is about to move. The function of this device may be tested by pushing the left hand CANCEL button. If no sound is heard, ensure that the alarm volume is not set to low in SYSTEM SETUP. If there is still no sound then a service engineer should be called out to rectify the fault.

SERVICE AND CLEANING - The grill is secured in the grill bay by the installer using two anchors that lock onto the front casters. If the grill is to be moved out of the bay for cleaning or service, remove the anchor from each caster by turning the knob counterclockwise to loosen the retainer. When the retainer is free of the caster, lay the assembly aside on the floor.

NOTE: The anchor assembly remains fastened to the back wall of the grill bay.

After service or cleaning is complete, return the grill to its position in the bay and reattach the anchors by placing the retainer on the caster post and turning the knob clockwise to tighten.

NOTE: For safety reasons, the grill must be secured in the grill bay in this manner before operation can resume.

SHIPPING DAMAGE CLAIM PROCEDURE

Please note that the Garland equipment was carefully inspected and packed by skilled personnel before leaving the factory. The transportation company assumes full responsibility for safe delivery upon acceptance of the equipment.

What to do if the equipment arrives damaged:

1. File a claim immediately regardless of the extent of damage.

2. Be sure to note, "visible loss or damage," on the freight bill or express receipt and have the person making the delivery sign it.

3. Concealed loss or damage: if damage is unnoticed until the equipment is unpacked, notify the freight company immediately, (within 15 days), and file a concealed damage claim.

CLEANING AND MAINTENANCE

The following information is also available on the McDonalds MRC Card 11.

- Tools: McD Hi-Temp Grill Cleaner (HCS), McD All Purpose Super Concentrate (HCS), McD's NO-SCRATCH(Pad and Pad Holder, a suitable container, High-Temperature Pot Brush and Grill Cloth, Stainless Steel Pan Filled With Lukewarm Water, Protective Gloves, (to protect hands from heat), Grill Squeegee and Grill Scraper.
- Warning: The upper platen surface and edges are very hot! To prevent burn injuries, use extreme caution when wiping down release sheets and platen edges.
- Important: Frequently throughout the day, (at least 4 times per hour), thoroughly wipe down the release sheets and platen edges with a damp grill cloth.
- 1. PRESS the "MENU" button until "CLEAN MODE" is displayed, (the control will maintain the proper cleaning temperature). Repeat with the other control. "READY TO CLEAN" will be displayed and an audible alarm will

sound when the grill is at the proper cleaning temperature. PRESS the "MENU" button to display "OFF." The "OFF" position on the controllers allows the operator to raise and lower the upper platens, (for clamshell grills), to alternate positions for proper cleaning of the platen edges.

- 2. Empty and replace the grease troughs. Grease troughs should be emptied and replaced consistent with store security policy.
- 3. Put on the protective gloves and wipe down the exposed surface of the release sheet with a damp grill cloth.
- 4. Remove the release sheet locking clips and bars. Clean the release sheets following the instructions provided by your local cleaning chemical supplier.
- 5. Scrape only the lower grill surface with the grill scraper, and squeegee any residue into the grease troughs with the grill squeegee.

Caution: Do not scrape or otherwise scratch the upper platens. The use of metal scrapers, abrasive pads, or wire brushes will permanently damage the surface of the upper platens.

- 6. Open one packet of McD Hi-Temp Grill Cleaner, (HCS), and empty the contents into a suitable container. (One packet cleans a 3ft. grill).
- 7. Firmly attach the McD NO-SCRATCH(Pad to the pad holder.
- 8. Dip the NO-SCRATCH(Pad into the grill cleaner.
- 9. Spread a light coating of grill cleaner over the entire platen surface, BACK, FRONT AND SIDE EDGES of both upper platens. DO NOT SCRUB WHILE APPLYING THE PRODUCT.
- 10. After applying the grill cleaner, lightly scrub the platen surfaces, BACK, FRONT AND SIDE EDGES with the NO-SCRATCH(Pad until all the soil has been liquefied by the grill cleaner. For stubborn soils, apply additional grill cleaner and lightly scrub. DO NOT RINSE THE PLATENS AT THIS TIME.
- 11. Starting at the back of the lower grill, spread a light coating of grill cleaner over the entire surface. DO NOT SCRUB WHILE APPLYING THE PRODUCT.
- 12. After applying the grill cleaner, lightly scrub the grill surface with the NO-SCRATCH(Pad until all the soil has been liquefied
- 13. For Clamshell Grills, rinse the upper platens with a dripping wet grill cloth. RINSE PLATEN EDGE THOROUGHLY, THEN WIPE DOWN BACK EDGE OF PLATEN.

14. Carefully pour small quantities of lukewarm water onto the grill while brushing the surface, backsplash, and bullnose with a LONGLIFE(pot brush or equivalent high-temperature brush. Continue until the water no longer boils away and the grill remains wet. Squeegee dry.

Caution: Ice, cold water, or large quantities of water must never be applied to the grill plate or upper platen. Severe damage to the grill will occur!

15. Clean the release sheets as follows:

16. Place the sheets on the lower grill. Scrub both sides of the sheets with the same McD NO-SCRATCH(Pad used on the grill.

Note: It is generally not necessary to apply additional product to the NO-SCRATCH(Pad. If the pad is not wet enough, rewet with a small amount of water, if no cleaner is left.

a. Rinse both sides of the sheets with a wet grill cloth.b. Rinse the lower grill by flooding the surface twice with lukewarm water. Squeegee after each rinse.

17. Wipe the lower grill surface, backsplash, bullnose, and hood with a clean, damp grill cloth.

AFTER CLEANING - Apply a thin coat of fresh shortening to the lower grill surface only. Wipe down the surrounding areas. Empty, wash, rinse, and replace the grease troughs.

Note: Repeat this procedure to clean additional grills. Reverse NO-SCRATCH[™] Pad, and use clean side.

CLEANING AFTER EACH RUN OF PRODUCT:

Using grill scraper, scrape grease on lower grill plate from front to back only. Do not scrape across the rear of the lower grill plate with grill scraper. Use wiper squeegee to clean release material sheet on upper platen in a downward motion. Hold handle at a slight upward angle with wiper end facing downward. Do not press hard against the release material sheet to prevent scratching or tearing.

Push the grease at the rear of the lower grill plate into the grease cans using the wiper squeegee only. Do not use the grill scraper for this step.

Warning: Grill Temperatures will cause severe skin burns.

Use the grill cloth to clean back splash and bullnose areas as needed during operation.

Note: To increase life of release material sheet, wipe down with folded grill cloth four (4) times every hour.

SPECIFICATIONS



FULL SIZE ELECTRIC GRILL MODEL MWE-9501 W/ 2 SPEED FAN

FLECTRICAL	KW LOAD	NO	MINAI	FF	NEMA						
REQUIREMENTS	208/220/240 60HZ	NO	PHASE ONLY)							LL	RECEPTACLE REQUIRED
		208 VAC 60HZ			220 VAC 60HZ			240 VAC 60HZ			
TWO (2) 50 - AMP CIRCUITS	21.2 KW	Х	Y	Ζ	Х	Y	Ζ	Х	Y	Ζ	TWO (2) #15-50R
		29.5	29.5	29.5	27.9	27.9	27.9	26	26	26	
ADDITIONAL REQUIRED CONNECTION	HVAC HO	HVAC HOOD / FIRE SUPPRESSION INTERLOCK CIRCUIT - 120VAC, 7 AMP, SINGLE PHASE						L21-20R			

SPECIFICATIONS



HALF SIZE ELECTRIC GRILL MODEL MWEH-9501 W/ 2 SPEED FAN

FLECTDICAL	KW LOAD	NO	MINAI		DECD		JE DEL		רע (דווס	EE	NEMA
REQUIREMENTS	208/220/240 60HZ	NO	PHASE ONLY)					RECEPTACLE REQUIRED			
	208	VAC 60	OHZ	220 VAC 60HZ			240 VAC 60HZ				
ONE (1) 50 - AMP CIRCUITS	10.6 KW	Х	Y	Z	Х	Y	Z	Х	Y	Z	ONE (1) #15-50R
		29.5	29.5	29.5	27.9	27.9	27.9	25.5	25.5	25.5	
ADDITIONAL REQUIRED CONNECTION	HVAC H	OOD / FIRE SUPPRESSION INTERLOCK CIRCUIT - 120VAC, 7 AMP, SINGLE PHASE						L21-20R			

SPECIFICATIONS



HALF & HALF FULL SIZE LEFT SIDE CLAM ONLY MODEL MWEL-9501

FLECTRICAL	KW LOAD	NO	NOMINAL AMPERES PER LINE, PER CORD (THREE								NEMA
REQUIREMENTS	208/220/240 60HZ	110	PHASE ONLY)					RECEPTACLE REQUIRED			
	208	VAC 60)HZ	220 VAC 60HZ			240 VAC 60HZ				
TWO (2) 50 - AMP CIRCUITS	18.1 KW	Х	Y	Ζ	Х	Y	Z	Х	Y	Z	TWO (2) #15-50R
		25.1	25.1	25.1	23.8	23.8	23.8	21.8	21.8	21.8	
ADDITIONAL REQUIRED CONNECTION	HVAC HO	100D / FIRE SUPPRESSION INTERLOCK CIRCUIT - 120VAC, 7 AMP, SINGLE PHASE						L21-20R			



HALF & HALF FULL SIZE RIGHT SIDE CLAM ONLY MODEL MWER-9501

ELECTRICAL REQUIREMENTS	KW LOAD 208/220/240 60HZ	NC	NOMINAL AMPERES PER LINE, PER CORD (THREE PHASE ONLY)						NEMA RECEPTACLE REQUIRED		
TWO (2) 50 - AMP CIRCUITS	18.1 KW	208 VAC 60HZ X Y Z 25.1 25.1 25.1			220 X 23.8	220 VAC 60HZ 240 VAC 60HZ X Y Z X Y Z 23.8 23.8 23.8 21.8 21.8 21.8				0HZ Z 21.8	TWO (2) #15-50R
ADDITIONAL REQUIRED CONNECTION	HVAC H	C HOOD / FIRE SUPPRESSION INTERLOCK CIRCUIT - 120VAC, 7 AMP, SINGLE PHASE						L21-20R			



FULL SIZE FLAT GRILL MODEL MWEF-9501

FLECTDICAL	KW LOAD	NO	NOMINAL AMPERES PER LINE PER CORD (THREE								NEMA
REQUIREMENTS 208/220/240 PI 60HZ					PHASE ONLY)					LL	RECEPTACLE REQUIRED
		208	208 VAC 60HZ		220 VAC 60HZ			240 VAC 60HZ			
ONE (1) 50 - AMP CIRCUITS	15	Х	Y	Ζ	Х	Y	Ζ	Х	Y	Ζ	ONE (1) #15-50R
		41.7	41.7	41.7	39.4	39.4	39.4	36.1	36.1	36.1	
ADDITIONAL REQUIRED CONNECTION	HVAC HO	HOOD / FIRE SUPPRESSION INTERLOCK CIRCUIT - 120VAC, 7 AMP, SINGLE PHASE						L21-20R			

RELEASE MATERIAL INSTALLATION

The following are the procedures for installing the teflon sheets on the upper platen on the Garland Clamshell grill. The components shown below are included with your grill when purchansed.

1. Slide release material rod through hemmed end of the release material sheet.



2. Hook release material rod on brackets located at the rear of the upper platen



3. Holding the bottom of the realease material sheet in place, gently pull the sheet toward the front of the platen.

NOTE: Make sure release material fits smoothly over upper platen.

4. Place locking clips over release material sheet and press into place over release material bar



- 5. Check alignment and tightness of release material against upper platen.
- NOTE: Installing release material sheets too tight may cause premature failure of the sheet.

Installing only 1 clip on over the release material bar may cause the release material sheet to be too loose. Ensure that 2 clips are installed on the teflon bar at all times.

Relase material sheets should be replaced when:

- Product sticks to release material
- Carbon build-up causes problems in taste or appearance.
- A tear in the release material sheet's cooking area.
- Relase material coating is worn off sheet.

NOTE: Rotate the release sheets on daily basis

RELEASE MATERIAL INSTALLATION (OPTIONAL)

NOTE: TEFLON ROLLUP BAR ASSEMBLY'S ARE SEPARATE FOR LEFT AND FOR RIGHT. NOTE THE "L" OR "R" STAMPED ON THE BRACKET ASSEMBLY FOR CORRECT POSITIONING.

WARNING: UPPER PLATEN TEMPERATURES ARE VERY HOT. PLATEN SHOULD BE COOL WHILE INSTALLING

Part Number	Description	These components can be ordered from your Factory
1853798	Teflon Rollup Kit (RIGHT)	Authorized Service Center.
1853799	Teflon Rollup Kit (LEFT)	

- 1. If attached, remove Teflon sheet clips located on the front of the platen.
- 2. Insure Teflon bar that is bolted to the upper platen is free and clear of carbon buildup, and clean as necessary.
- 3. Install Teflon rollup bar bracket by placing new rollup over existing Teflon bar, with the set screws facing DOWN (See Figure 1).
- 4. Tighten set screws using 1/8" allen wrench.







RELEASE MATERIAL INSTALLATION (OPTIONAL)

E 6. Install existing rod through opening on teflon sheet as previously done with existing rod and sheet. 7. Clip existing teflon bar in rear of platen as previously done with existing rod and sheet. 8. Fold corner edges of front of teflon sheet approximately 1 inch on top and side, and insert folded sheet through opening in Teflon rollup. Upper Platen (Side View) **Release Material Hook** Release Material Rod Release Material Sheet 9. Once inserted, pull through and hold Teflon sheet in center, and turn the tightening knob clockwise (for right platen) and counter-clockwise (for left platen). 10. Once tight, turn locking knob in opposite direction of tightening knob.

2-SPEED FAN INTERFACE INFORMATION

2 Speed Fan Information

This unit is equipped with a 2-speed fan interface (Grills manufactured post grill serial number 0010CL0036). McDonalds stores built post May 2000 are equipped with the capability of a 2-speed interface. In the event that a store is a capable 2-speed fan store, and the grill is not a 2-speed fan unit, a separate 2-speed installation kit is available upon request at a set billable price to the store.

Units equipped with a 2-speed fan interface still require the 5-wire interlock cord, in addition to a separate 3-wire extension cord supplied from the hood exhaust system. 2-speed installation instructions are available upon request.

2-speed activation will occur at the following times:

LOW SPEED (all active AFTER (1) ONE MINUTE)

- 1. All platens (equipped and are active 2-speed fan grills) go into the standby mode. (*For standby mode see page 23*).
- 2. All platens (equipped and are active 2-speed fan grills) are in the OFF mode.
- 3. All platens (equipped and are active 2-speed fan grills) are idle (in the up position).
- 4. When grill is initially turned on for initial heat up in the morning.

HIGH SPEED (Active immediately)

- 1. A cook cycle on at least 1 platen (equipped and are active 2-speed fan grills) is initiated.
- 2. When grill is initialized using the main ON/OFF Master Power switch for 1 minute.
- 3. CLEAN MODE.

UNIT INSTALLATION

IMPORTANT: RATING PLATE FOR THIS EQUIPMENT IS LOCATED IN TWO PLACES. ONE IS LOCATED INSIDE BACK PANEL ON LEFT SIDE, SECOND RATING PLATE LOCATED UNDER FRONT CONTROL PANEL ON CENTER.

CAUTION: Prior to installation, check the electrical supply to ensure input voltage and phase match the equipment voltage rating and phase. See data plate located rear left side of grill. Back panel removal is required.

Grill is to be located directly under ventilation system and fit securely with grill locks attached.

Grill must be level front to back, side to side and diagonally.

WARNING: Electrical appliances must be electrically grounded in accordance with local codes or in the absence of local codes, with national electric code ANSI/NFPA - latest version.

CAUTION: The grill has more than one (1) power supply. Unplug all cords before servicing.

WARNING: Installer Note - The grill is designed for connection to a special interlock system. Check receptacle wiring diagram below before connecting.

Configuration may vary by area or country. Verify with the local regional operations department.

PLATEN ZEROING

NOTE: Gap calibration tool is located inside of grill on the right front side, directly below the motor speed controller.

Turn Master power switch "ON", wait for controllers to display "OFF".

- 1. PRESS and HOLD the "PROG" button for five, (5), seconds. (Display will flash GC450 and the program version number).
- 2. PRESS the "PROG" button twice to display "SYSTEM SETUP".
- 3. PRESS and HOLD the "UP ARROW" (↑) button for ten, (10), seconds, "GAP CALIBRATION" will be displayed.

Allow time for grill to heat and turn ready. Press both the Cancel (Green) and Standby (Black) buttons simultaneously to lower the upper platen.

Remove platen adjuster caps from all four adjustment points on each platen. Remove the four locking caps from the adjustment points. Using the adjusting tool lower platen until adjusting tool touches the arm assembly.

Left Side Platen

With gapping tool and working in a diagonal method, adjust right rear of platen until the gapping tool fits snugly between the upper platen and grill surface. Move next to the left front adjustment and raise the platen until the gapping tool fits snugly between the upper platen and grill surface. Next go to the left rear and raise the platen until the gapping tool fits snugly between the upper platen and grill surface. Move next to the right front adjustment and raise the platen until the gapping tool fits snugly between the upper platen and grill surface.

You will need to go around and check proper gap several times before platen becomes truly level.

Replace left side platen adjuster locking caps "hollow side down" and snug tight.

Replace left side platen adjuster caps.

- 4. PRESS the "PROG" button to display "MENU ITEMS".
- 5. PRESS the "RIGHT ARROW" button (\rightarrow) to return to the normal OPERATING MODE.

Right Side Platen

Repeat steps 1 through 3. With gapping tool and working in a diagonal method, adjust left rear of platen until the gapping tool fits snugly between the upper platen and grill surface. Move next to the right front adjustment and raise the platen until the gapping tool fits snugly between the upper platen and grill surface.

Next go to the right rear and raise the platen until the gapping tool fits snugly between the upper platen and grill surface. Move next to the left front adjustment and raise the platen until the gapping tool fits snugly between the upper platen and grill surface.

You will need to go around and check proper gap several times before platen becomes truly level.

Repeat steps 4 through 5. Replace right side platen adjuster locking caps "hollow side down" and snug tight.

PLATEN ZEROING

OPTIONAL ACCESSORIES

Teflon Sheet - 1799301 Teflon Rear Rod - 1851201 Teflon Clip - 1851301

Teflon Rollup Assembly Left Assy - 1853799 Reight Assy - 1853798

Grill Squeegee - 1858201

Splash Shield - 4520354

DESCRIPTION OF GRILL CONTROLS

General Overview

The grill control will allow for 2 functions, both described in the following sections.

The "**Normal Operating Mode**", also known as the Cook Mode is the mode in which is used during normal cooking. In the normal operating mode, the operator can start a cook cycle, cancel a cook cycle, view actual temperatures, view settings for the currently selected menu item, scroll to another menu item (Both forward and backward), and enter the "**Programming Mode**".

The "**Programming Mode**" is the mode in which the grill operator, manager, or service technician can change various programmed features to specific menu items, or change features that would apply to the entire grill.

The Master Power (Pushbutton (ON / OFF)

Controls power to the grill and must be turned "ON" to start the operation. The controller displays will be active when the switch is "ON".

Indicator Lights

There are four, (4), indicator lights, indicating the temperature status of each zone on the grill, one, (1), on the upper platen, (top light), and three, (3), on the lower, (lower section of lights, top to bottom; rear, center, front, respectively - see diagram on previous page). Each light can display three, (3), different colors, indicating temperature status for the corresponding zone.

Red: The zone(s) is too hot (more than 79°F/43°C over the set temperature) or heat zone(s) failure.

Amber: The zone(s) is calling for heat.

Green: The zone(s) is at or above the set temperature (maximum of $79^{\circ}F/43^{\circ}C$).

Display:

The controller display will contain information relevant to each operation in both cook and program modes.

NOTE: ** Version 7.3X EPROM Chip ** - At the end of the pre-programmed menu item Round Eggs cook cycle, the rear LED (Gas Zone) will turn off for a period of 60 seconds. The LED (or heat) will remain off for the period of 60 seconds unless another cook cycle is initiated.

Up Arrow Button - Two Functions

1) In the cook mode, when depressed, it will display the Remove time, Top Temperature, Bottom temperature and Gap setting for the menu item displayed. Each item will be displayed in the order as stated above. After 5 seconds the display will return to the product menu item.

2) In the program mode, it will change the value of the current cursor digit, (see "RIGHT ARROW" button).

Right Arrow Button - Two Functions

- 1) In the program mode various displayed parameters will be shown in numerical values. Each number, when displayed, will have a flashing digit...the cursor digit. The "RIGHT ARROW" button will move the cursor to the next digit. Using the "RIGHT ARROW" button in conjunction with the "UP ARROW" button described above, any parameter value displayed in the program mode may be altered.
- 2) In the cook mode it will scroll backward through the menu items.

Program Mode Button - Two Functions

 The primary function is to access Programming and Calibration of the grill. Push and hold for five (5) seconds. Display will show type and version number. There are two programming features,

"MENU ITEMS" and "SYSTEM SETUP".

 The second function is when used with "TEMP" button. To display all temperature zones at the same time, press the "TEMP" button one time and the 'PROG" button five (5) times. This will display all four (4) temperature zones.

Menu Button - Two Functions

- 1) In the cook mode this button will allow you to change menu items.
- 2) In the programming mode, the button is used to advance to the next program item.

Temperature / Function Button - Two Functions

- In the Cook mode, each time the button is pressed the current temperature for one zone will be displayed. The displayed temperature begins at the upper platen and works sequentially to the front each time you press the button. After five (5) seconds the display will return to the menu item selected.
- In the Program mode, this button becomes the Function button allowing you to scroll through the functions in the "MENU ITEMS" section of programming.

DESCRIPTION OF GRILL CONTROLS

Standby Button - Black

When both "STANDBY" and "CANCEL/RAISE" buttons are pressed simultaneously, the upper platen will lower to the griddle surface. Press the "STANDBY" button again within five (5) seconds from the start of the cook cycle, to place the controller in its "standby" state. The display will flash "STANDBY" along with the menu item currently selected. For energy conservation and periods of non-use this will maintain grill temperatures.

Cancel / Raise Button - Green

From the "STANDBY" mode, pushing this button will cancel "Standby" and raise platen. During the cooking cycle, pressing this button will cancel the cooking timer and return the grill to the "IDLE" mode.

NOTE: If the platen is in motion, pressing the "CANCEL/ RAISE" button will stop the platen in motion and return the platen to the "IDLE" mode (Eprom version 3.52 and greater).

NORMAL OPERATING MODES

NOTE - TO STOP THE GRILL AT ANY TIME, TURN THE MASTER POWER SWITCH OFF

Preheat Mode (Eprom 6.20 and higher)

The first menu item selected after pressing the "MENU SELECT" button is "PREHEAT". The Preheat Mode is designed to allow the lowering of the platens during initial heating for quicker heat up and therefore increased energy savings.

Preheat mode is not actually a menu item, as it does not have a remove time.

Preheat mode has been designed to alarm the operator when the grill is "READY TO COOK".

The upper platen set temperature is 425° F (218°C) and a lower grill surface set temperature of 350°F (177°C). When the grill reaches these set temperatures, the operator can then select a menu item with equal set temperatures, and the grill will be ready to cook.

To Cook in Clam Grill Mode:

1. SELECT a clam grill menu by pressing the "MENU SELECT" button, until you attain the required Clam menu item. The display may read either "TOO COOL" or "TOO HOT," (alternating with the "MENU ITEM"), until the grill attains the set temperature range for that menu, then the "MENU ITEM," (only), will be displayed.

NOTE: If the display reads either "TOO COOL" or "TOO HOT" the upper platen will not lower and initiate a cooking sequence.

- 2. After laying product in the prescribed method, press the GREEN ("CANCEL/RAISE") and the BLACK ("STANDBY") buttons at the same time. An audible alert will sound and the platen will lower to the preset gap and the timing will automatically start.
- 3. When the cook cycle times down to five, (5), seconds remaining, a pre-time-out alarm will sound to alert the

grill operator.

- 4. When the cooking time has been completed, the upper platen will raise and the display will flash "REMOVE" with an audible alert, then remove product per the prescribed method.
- 5. To cancel a cooking cycle, press the GREEN ("CANCEL/ RAISE") button. The upper platen will rise. The display will flash "CANCEL" with an audible alert.

NOTE: If the alarm cancel is set to AUTO, the audible alert will sound five (5) seconds before timing is finished.

-OR-

If the alarm cancel is set to MANUAL, the audible alert will sound as the timing is finished.

To Cook in Flat Grill Mode:

- 1. SELECT a flat menu by pressing the "MENU SELECT" button, until you attain the required menu item. The display may read either "TOO COOL" or "TOO HOT" (alternating with the "MENU ITEM") until the grill attains the set temperature for that menu.
- 2. After laying product in the prescribed method, press the GREEN, ("CANCEL/RAISE"), and the BLACK, ("STANDBY"), buttons at the same time, starting the cooking time countdown.

NOTE: If the display reads either "TOO COOL" or "TOO HOT" the controller will not initiate a cooking sequence.

3. PERFORM the required functions displayed, i.e.; sear, turn, to cancel the audible alerts, press the BLACK ("STANDBY") button.

CAUTION: Pressing the GREEN ("CANCEL/RAISE") button will cancel the cooking cycle, and pressing any other button on the controller will cancel the alarm.

NORMAL OPERATING MODES

4. When the cooking time has been completed, the display will flash "REMOVE" with an audible alert. Remove product per the prescribed method.

NOTE: If a required flat grill menu cannot be found, go to the programming mode (see programming, "MENU ITEMS".

Standby Mode:

1. SELECT a clam grill menu by pressing the "MENU SELECT" button, until you attain the required menu item.

NOTE: If the display reads either "TOO COOL" or "TOO HOT" the upper platen will not go into "STANDBY".

2. PRESS the GREEN ("CANCEL/RAISE") and the BLACK ("STANDBY") buttons at the same time. As soon as the upper platen moves down, release both buttons and press the BLACK ("STANDBY") button again, (within 5 seconds), from the start of a cook cycle, the display will read "STANDBY MODE" alternating with the "MENU ITEM".

EXIT the Standby Mode:

1. PRESS the GREEN ("CANCEL/RAISE") button. The upper platen will raise and the display will read "CANCEL" with an audible alarm.

Standby Alarm (Version 6.20 and higher)

An audible alarm called the "Standby Alarm" has been added to version 6.20 EPROM chip. This alarm, when enabled to "YES" (See Programming - System Setup) will sound if the grill has been idle for 300 seconds (5 minutes) signaling the operator to put the grill into the Standby Mode.

The alarm is INACTIVE if the "Standby Alarm" feature under SYSTEM SETUP is enabled to "NO".

To Display the Current Temperature

1. PRESS the "TEMP" button and repeat for each zone to be displayed.

1st press - CENTER UPPER PLATEN 2nd press - REAR LOWER ZONE 3rd press - CENTER LOWER ZONE 4th press - FRONT LOWER ZONE

NOTE: The temperatures may be displayed at any time, including during a cooking cycle.

To display all temperature zones at the same time, press the "TEMP" button one, (1), time, then the "PROG" button five, (5), times.

<u>To View Settings for a Menu Item:</u>

- 1. With the required menu displayed, PRESS the "UP ARROW" button (\uparrow).
- PRESSING the "UPARROW" button (↑) repeatedly will cycle through and display that menu's function time(s), set temperature(s) and the gap setting (if applicable).

NOTE: The display will return to the menu (menu name) **after five (5) seconds if the "UP ARROW"** button (\uparrow) has not been pressed.

To Reset Factory Defaults

NOTE: All settings on all menus will revert to factory defaults. It is recommended that all current settings be recorded on paper prior to reloading the factory default settings.

- 1. **PRESS** and **HOLD** the "**PROG**" button for **five**, **(5)**, **seconds**. (Display will flash GC450 and the program version number.
- PRESS and HOLD the "UP ARROW" button (↑) for twenty, (10), seconds, "RELOAD DEFAULTS" will be displayed.
- **3. PRESS** the "**RIGHT ARROW**" button (\rightarrow) to **reload**. (Display will read "**RELOADING DEFAULTS**").
- 4. **PRESS** the "**RIGHT ARROW**" (\rightarrow) to return to the normal OPERATING MODE.

NOTE: Pressing any other button will cancel the RELOAD DEFAULTS request.

NORMAL OPERATING MODES

To Clean the Grill:

- 1. PRESS the "MENU" button to obtain the menu "CLEAN MODE." (The controls will maintain the proper cleaning temperature).
- 2. "READY TO CLEAN" will be displayed when the grill is at the proper cleaning temperature and an audible alarm will sound. Press the "MENU" button to display "OFF." The "OFF" position on the controllers allows the operator to raise and lower the upper platens to alternate positions for proper cleaning of the side and rear edges of the platens.
- 3. When cleaning is completed, you may turn the "MASTER POWER" (rocker) switch off.

NOTE: Be sure to check upper platen safety pin is disengaged (pulled out) prior to pushing grill back under grill.

<u>Breakfast to Lunch Transition (Transition</u> <u>Cooking)</u>

Approximately 30 minutes before changing to the lunch menu, perform the following:

- **1. PRESS** the **"TEMP"** button (to display the upper platen temperature).
- **2. Press** the **"UP ARROW"** (\uparrow) button.
- 3. The upper platen indicator will light (AMBER) and maintain the normal operating (set) temperature.

Multi-Stage Cooking

If you have version 7.30 EPROM chip software, your controller is equipped with the new Multi-stage cooking feature.

With Multi-Stage cooking, the product being cooked is cooked using multiple gap settings for a selected period of time.

For example, during 4:1 cooking, the platen would normally gap at a gap setting of .416 (Four-hundred and sixteen thousands) for the entire length of the cook cycle.

With multi stage cooking, the platen will gap at the beginning of the cook cycle at .400 for only 5 seconds. At the interval of 6 seconds, the gap will change to .425 for the remainer of the cook cycle.

All of the "CLAM" menu items programmed in this 7.30 eprom chip have options to cook using the multi-stage gap feature.

Currently, 10:1 - CLAM, and 4:1 - CLAM are the only menu items with a factory default program with multiple gaps. Please see table below showing additional stages for these products.

PRODUCT	FUNCTION	TIME	GAP (MULTI ACTIVE)	TOAST BUNS TIME	TOP TEMP	BOTTOM TEMP
	REMOVE IN	OVE IN 37 .265				
	STAGE #1	5	.245	0	425°F 218°C	350⁰F 177⁰C
10:1 - CLAM	STAGE #2	0	0	0		
	STAGE #3	0	0			
	REMOVE IN	107	.425			
4.4	STAGE #1	10	.400	0	425°F	350°F
4.1	STAGE #2	0	0	0	277°C	177ºC
	STAGE #3	0	0			

THE TABLE ABOVE REPRESENTS THE 2 MENU ITEMS THAT HAVE A FACTORY DEFAULT SETTING FOR MULTI STAGE COOKING.

*** ONLY AVAILABLE IN 7.XX ***

FOR INFORMATION REGARDING ALL MENU ITEMS, AND THEIR DETAILED LISTING OF FUNCTIONS, SEE "CONTROLLER MENU ITEMS"

PROGRAM LOGIC CHART

The diagram below is a graphical representation of the control's menu structure in the program modes. The following pages detail the various programming procedures. After you become more familiar with these procedures, this diagram will serve as a quick reference to the program functions and the key sequences needed to access them.

SYSTEM SETUP

<u>To Display Temperatures in F or C</u>

- 1. **PRESS** and **HOLD** the "**PROG**" button for **five**, (5), **seconds**. (Display will flash GC450 and the program version number).
- 2. PRESS the "PROG" button twice to display "SYSTEM SETUP".
- 3. PRESS the "MENU" button to display "DISPLAY TEMP. IN : °F/°C".
- PRESS the "UP ARROW" button (↑) to change °F or °C.
- 5. PRESS the "PROG" button to display "SYSTEM SETUP".
- 6. PRESS the "RIGHT ARROW" button (\rightarrow) to return to the normal OPERATING MODE.

To Change the Speaker Volume (High / Low)

- 1. **PRESS** and **HOLD** the "**PROG**" button for **five**, (5), **seconds**. (Display will flash GC450 and the program version number).
- 2. PRESS the "PROG" button twice to display "SYSTEM SETUP".
- **3. PRESS** the **"MENU"** button to display **"ALARM VOLUME"**.
- PRESS the "UP ARROW" button (↑) to change (HIGH/LOW).
- 5. PRESS the "PROG" button to display "SYSTEM SETUP".
- 6. PRESS the "RIGHT ARROW" button (→) to return to the normal OPERATING MODE.

To Change the Gap Calibration

- 1. **PRESS** and **HOLD** the "**PROG**" button for **five**, (5), **seconds**. (Display will flash GC450 and the program version number).
- 2. PRESS the "PROG" button twice to display "SYSTEM SETUP".
- PRESS and HOLD the "UP ARROW" (↑) button for ten, (10), seconds, "GAP CALIBRATION" will be displayed.
- 4. PRESS the "UP ARROW" button (↑) again, the "+" (PLUS) button to increase the value OR the "RIGHT ARROW" button (→), "-" (MINUS) to decrease the value.
- 5. PRESS the "PROG" button to display "SYSTEM SETUP".
- 6. PRESS the "RIGHT ARROW" button (\rightarrow) , to return to the normal OPERATING MODE.

To Enable / Disable Start Delay

- 1. **PRESS** and **HOLD** the "**PROG**" button for **five**, (5), **seconds**. (Display will flash GC450 and the program version number).
- 2. PRESS the "PROG" button twice to display "SYSTEM SETUP".
- PRESS and HOLD the "UP ARROW"(↑) button for ten, (10), seconds, "GAP CALIBRATION" will be displayed.
- **4. PRESS** the **"MENU"** button. The hold feature will display "OFF".
- **5. HOLD the "RIGHT ARROW"** (\rightarrow) for ten, (10), seconds, the "OFF WILL FLASH".
- 6. PRESS the "UP ARROW" (\uparrow) to change the safety (ON/OFF).
- **7. PRESS** the "PROG" button to display "SYSTEM SETUP".
- 8. **PRESS** the "RIGHT ARROW" button (\rightarrow) to return to the normal **OPERATING MODE**.

SYSTEM SETUP

To Change Start Delay Timer

- 1. PRESS and HOLD the "PROG" button for five, (5), seconds. (Display will flash GC450 and the program version number).
- 2. PRESS the "PROG" button twice to display "SYSTEM SETUP".
- 3. PRESS and HOLD the "UP ARROW"(↑) button for ten, (10), seconds, "GAP CALIBRATION" will be displayed.
- **4. PRESS** the **"MENU"** button. The hold feature will display "OFF".
- 5. HOLD the "RIGHT ARROW" (\rightarrow) for ten, (10), seconds, the "(ON / OFF) WILL FLASH".
- **6. PRESS the "UP ARROW"** (↑) to change the safety (ON/OFF).
- **7. PRESS** the "**FUNCTION**" button to display "DELAY TIME:"
- 8. PRESS the "UP ARROW" (↑) to change the delay time seconds in increments of .5 seconds.
- **9. PRESS** the "**PROG**" button to display "**SYSTEM SETUP**".
- **10. PRESS** the "**RIGHT ARROW**" button (\rightarrow) to return to the normal **OPERATING MODE**.

<u>To Change the Standby Alert Feature - EPROM</u> <u>Chip Ver. 6.20 and higher</u>

- 1. **PRESS** and **HOLD** the "**PROG**" button for **five**, (5), **seconds**. (Display will flash GC450 and the program version number).
- 2. PRESS the "PROG" button twice to display "SYSTEM SETUP".
- 3. PRESS the "MENU" button until "STANDBY ALERT (YES/NO)".
- PRESS the "UP ARROW" button (↑) to change (YES/ NO).
- 5. PRESS the "PROG" button to display "SYSTEM SETUP".
- 6. PRESS the "RIGHT ARROW" button (\rightarrow) to return to the normal OPERATING MODE.

<u>To Enable / Disable Multi-Stage Cooking - EPROM</u> <u>Chip Ver. 7.XX and higher</u>

- 1. **PRESS** and **HOLD** the **"PROG"** button for **five**, **(5)**, **seconds**. (Display will flash GC450 and the program version number).
- 2. PRESS the "PROG" button twice to display "SYSTEM SETUP".
- **3. PRESS** the **"MENU"** button until "MULTI GAP CLAM" is displayed.
- 4. **PRESS** and HOLD the "**RIGHT ARROW**" button (\rightarrow) until the (YES/NO) begins to flash.
- **5. PRESS** the **"UP ARROW**" button (↑) to change "YES" to "NO" or "NO" to "YES".
- 6. PRESS the "PROG" button
- 7. PRESS the "RIGHT ARROW" button (\rightarrow) to return to the normal OPERATING MODE.

NOTE: To Determine your version EPROM chip. PRESS and HOLD the PROG button for approximately 5 seconds. The controller will flash "GC450 - V. X.XX". Eprom Chips are available by calling your local factory authorized service center.

MENU ITEMS

To Add or Delete a Menu Item

- 1. **PRESS** and **HOLD** the "**PROG**" button for **five**, **5 seconds**. (Display will flash GC450 and the program version number).
- 2. PRESS the "PROG" button one time to display "MENU ITEMS".
- **3. PRESS** the "**MENU**" button to display the menu you want to add/delete.
- PRESS the "UP ARROW" button (↑) to change "Y" or "N".
- **5. PRESS** the "**PROG**" button to display "**MENU ITEMS**".
- 6. PRESS the "RIGHT ARROW" button (\rightarrow) to return to the normal OPERATING MODE.

To Change the Remove Time

- 1. PRESS and HOLD the "PROG" button for five, 5 seconds. (Display will flash GC450 and the program version number).
- 2. PRESS the "PROG" button one time to display "MENU ITEMS".
- **3. PRESS** the "**MENU**" button to display the menu you want to adjust.
- 4. PRESS the "FUNCTION" button one time to display "REMOVE IN XXX".
- **5. PRESS** the "**UP ARROW**" button (\uparrow) to change the value of the flashing digit.
- 6. **PRESS** the "**RIGHT ARROW**" button (\rightarrow) to advance the cursor to the right for changing its value.
- 7. PRESS the "PROG" button to display "MENU ITEMS".
- 8. PRESS the "RIGHT ARROW" button (\rightarrow) to return to the normal OPERATING MODE.

To Change the Remove Time Alarm (Auto/Manual)

- 1. **PRESS** and **HOLD** the "**PROG**" button for **five**, **5 seconds**. The display will flash the version number.
- 2. PRESS the "PROG" button one time to display "MENU ITEMS".
- **3. PRESS** the "**MENU**" button to display the menu you want to adjust.
- 4. PRESS the "FUNCTION" button until "REMOVE IN XXX" is displayed.
- PRESS the "FUNCTION" button 1X. Controller will display "ALARM (AUTO / MANUAL)".
- **6. PRESS** the "**UP ARROW**" button (↑) to change the setting (AUTO/MANUAL).
- 7. PRESS the "PROG" button to display "MENU ITEMS".
- 8. PRESS the "RIGHT ARROW" button (\rightarrow) to return to the normal OPERATING MODE.

MENU ITEMS

To Change the Sear Time

- The following procedure IS ONLY AVAILABLE and can only be changed in FLAT MENU ITEMS.
- 1. **PRESS** and **HOLD** the "**PROG**" button for **five**, **5 seconds**. The display will flash the version number.
- 2. PRESS the "PROG" button one time to display "MENU ITEMS".
- **3. PRESS** the "**MENU**" button to display the menu you want to adjust.
- **4. PRESS** the "FUNCTION" button **until** "SEAR IN XXX" is displayed on the controller.

NOTE: IF SEAR TIME IS NOT DISPLAYED ON THE CONTROLLER, ENSURE THAT THE CURRENT PRODUCT SELECTED IS A FLAT MENU ITEM.

- **5. PRESS** the "**UP ARROW**" button (↑) to change the value of the flashing digit.
- 6. **PRESS** the "**RIGHT ARROW**" button (\rightarrow) to advance the cursor to the right for changing its value.
- 7. PRESS the "PROG" button to display "MENU ITEMS".
- 8. PRESS the "RIGHT ARROW" button (\rightarrow) to return to the normal OPERATING MODE.

To Change the Sear Time Alarm (Auto/Manual)

The following procedure IS ONLY AVAILABLE and can only be changed in FLAT MENU ITEMS.

- 1. **PRESS** and **HOLD** the "**PROG**" button for **five**, **5 seconds**. The display will flash the version number.
- 2. PRESS the "PROG" button one time to display "MENU ITEMS".
- **3. PRESS** the "**MENU**" button to display the menu you want to adjust.
- 4. PRESS the "FUNCTION" button until "SEAR IN XXX" is displayed.

NOTE: IF SEAR IN IS NOT DISPLAYED ON THE CONTROLLER, ENSURE THAT THE CURRENT PRODUCT SELECTED IS A FLAT MENU ITEM

- 5. PRESS the "FUNCTION" button 1X. Controller will display "ALARM (AUTO / MANUAL)".
- **6. PRESS** the "**UP ARROW**" button (↑) to change the setting (**AUTO/MANUAL**).
- 7. PRESS the "PROG" button to display "MENU ITEMS".
- 8. PRESS the "RIGHT ARROW" button (\rightarrow) to return to the normal OPERATING MODE.

<u>To Change the Toast Buns Time</u>

- 1. **PRESS** and **HOLD** the "**PROG**" button for **five**, **5 seconds**. The display will flash the version number.
- 2. PRESS the "PROG" button one time to display "MENU ITEMS".
- **3. PRESS** the "**MENU**" button to display the menu you want to adjust.
- 4. PRESS the "FUNCTION" button until "TOAST BUNS IN XXX" is displayed.
- **5. PRESS** the "**UP ARROW**" button (↑) to change the value of the flashing digit.
- 6. **PRESS** the "**RIGHT ARROW**" button (\rightarrow) to advance the cursor to the right for changing its value.
- 7. PRESS the "PROG" button to display "MENU ITEMS".
- 8. PRESS the "RIGHT ARROW" button (\rightarrow) to return to the normal OPERATING MODE.

To Change the Toast Buns Alarm (Auto/Manul)

- 1. **PRESS** and **HOLD** the "**PROG**" button for **five**, **5 seconds**. The display will flash the version number.
- 2. PRESS the "PROG" button one time to display "MENU ITEMS".
- **3. PRESS** the "**MENU**" button to display the menu you want to adjust.
- 4. PRESS the "FUNCTION" button until "TOAST BUNS IN XXX" is displayed.

MENU ITEMS

- 5. **PRESS** the "FUNCTION" button 1X until "ALARM" is displayed.
- 6. PRESS the "UP ARROW" button (↑) to change the setting (AUTO/MANUAL).
- 7. PRESS the "PROG" button to display "MENU ITEMS".
- 8. **PRESS** the "**RIGHT ARROW**" button (\rightarrow) to return to the normal **OPERATING MODE**.

To Change Turn Time

- The following procedure IS ONLY AVAILABLE and can only be changed in FLAT MENU ITEMS.
- 1. **PRESS** and **HOLD** the "**PROG**" button for **five**, **5 seconds**. The display will flash the version number.
- 2. PRESS the "PROG" button one time to display "MENU ITEMS".
- **3. PRESS** the "**MENU**" button to display the menu you want to adjust.
- **4. PRESS** the "FUNCTION" button **until** "TURN IN **XXX**" is displayed on the controller.

NOTE: IF TURN TIME IS NOT DISPLAYED ON THE CONTROLLER, ENSURE THAT THE CURRENT PRODUCT SELECTED IS A FLAT MENU ITEM.

- **5. PRESS** the "**UP ARROW**" button (↑) to change the value of the flashing digit.
- 6. **PRESS** the "**RIGHT ARROW**" button (\rightarrow) to advance the cursor to the right for changing its value.
- 7. PRESS the "PROG" button to display "MENU ITEMS".
- 8. PRESS the "RIGHT ARROW" button (\rightarrow) to return to the normal OPERATING MODE.

To Change Turn In Alarm (Auto / Manual)

The following procedure IS ONLY AVAILABLE and can only be changed in FLAT MENU ITEMS.

- **1. PRESS** and **HOLD** the **"PROG"** button for **five**, **5 seconds**. The display will flash the version number.
- 2. PRESS the "PROG" button one time to display "MENU ITEMS".
- **3. PRESS** the "**MENU**" button to display the menu you want to adjust.
- 4. PRESS the "FUNCTION" button until "TURN IN XXX" is displayed.

NOTE: IF TURN IN IS NOT DISPLAYED ON THE CONTROLLER, ENSURE THAT THE CURRENT PRODUCT SELECTED IS A FLAT MENU ITEM

- 5. PRESS the "FUNCTION" button 1X. Controller will display "ALARM (AUTO / MANUAL)".
- **6. PRESS** the "**UP ARROW**" button (↑) to change the setting (AUTO/MANUAL).
- 7. PRESS the "PROG" button to display "MENU ITEMS".
- 8. PRESS the "RIGHT ARROW" button (\rightarrow) to return to the normal OPERATING MODE.

To Change the grill surface set temperature

- 1. PRESS and HOLD the "PROG" button for five, 5 seconds. (Display will flash GC450 and the program version number).
- 2. PRESS the "PROG" button one time to display "MENU ITEMS".
- **3. PRESS** the "**MENU**" button to display the menu you want to adjust.
- 4. **PRESS** the "FUNCTION" button three times to display "TOP TEMP".
- **5. PRESS** the "**UP ARROW**" button (\uparrow) to change the value of the flashing digit.
- 6. PRESS the "RIGHT ARROW" button (\rightarrow) to advance the cursor to the right for changing its value.
- 7. PRESS the "PROG" button to display "MENU ITEMS".
- 8. PRESS the "RIGHT ARROW" button (\rightarrow) to return to the normal OPERATING MODE.

MENU ITEMS

To Change the upper platen set temperature

- 1. PRESS and HOLD the "PROG" button for five, 5 seconds. (Display will flash GC450 and the program version number).
- 2. PRESS the "PROG" button one time to display "MENU ITEMS".
- **3. PRESS** the "**MENU**" button to display the menu you want to adjust.
- 4. PRESS the "FUNCTION" button four times to display "BOTTOM TEMP XXX"
- **5. PRESS** the "**UP ARROW**" button (\uparrow) to change the value of the flashing digit.
- 6. PRESS the "RIGHT ARROW" button (\rightarrow) to advance the cursor to the right for changing its value.
- 7. PRESS the "PROG" button to display "MENU ITEMS".
- 8. PRESS the "RIGHT ARROW" button(\rightarrow) to return to the normal OPERATING MODE.

To Change the Gap Setting

- 1. **PRESS** and **HOLD** the "**PROG**" button for **five**, (5), **seconds.** (Display will flash GC450 and the program version number).
- 2. PRESS the "PROG" button twice to display "SYSTEM SETUP."
- 3. PRESS and HOLD the "UP ARROW" button (↑) for ten (10) seconds, "GAP CALIBRATION" will be displayed.
- 4. PRESS the "PROG" button twice to display "MENU ITEMS."
- 5. PRESS the "MENU" button to display the menu(s) of the gap(s) to be changed.
- 6. PRESS the "FUNCTION" button to obtain "GAP SETTINGS ".
- 7. PRESS the "RIGHT ARROW" button (→) to move the cursor, (blinking digit), to the required digit position.

- PRESS the "UP ARROW" button (↑) to obtain the desired number (O 9).
- 9. PRESS the "PROG" button to display "MENU ITEMS".
- **10.PRESS** the **"RIGHT ARROW"** button (\rightarrow) to return to the normal **OPERATING MODE**.

<u>To Enable High Limit Test - GRILL SURFACE</u> (Chip V. 3.52 and 4.0* ONLY)

- 1. PRESS and HOLD the "PROG" button for five, 5 seconds. (Display will flash GC450 and the program version number).
- 2. PRESS the "PROG" button one time to display "MENU ITEMS".
- **3. PRESS** the "**MENU**" button to display "**HIGH LIMIT GRILL**".
- PRESS the "UP ARROW" button (↑) to change "Y" or "N".
- **5. PRESS** the "**PROG**" button to display "**MENU ITEMS**".
- 6. PRESS the "RIGHT ARROW" button (\rightarrow) to return to the normal OPERATING MODE.

<u>To Enable High Limit Test - PLATEN</u> (Chip V. 3.52 and 4.0* ONLY)

- 1. PRESS and HOLD the "PROG" button for five, 5 seconds. (Display will flash GC450 and the program version number).
- 2. PRESS the "PROG" button one time to display "MENU ITEMS".
- **3. PRESS** the MENU button to display "HIGH LIMIT PLATEN".
- PRESS the UP ARROW (↑) to change "Y" to "N" or "N" to "Y".
- 5. PRESS the PROG button to display "MENU ITEMS".
- 6. **PRESS** the RIGHT ARROW button (\rightarrow) to return to the normal operating mode.

MENU ITEMS

TO ADD / PROGRAM NEW MENU ITEMS

<u>To Add / Program an [Option Menu - CLAM]</u>

- 1. **PRESS** and **HOLD** the **"PROG"** button for **five**, **(5)**, **seconds**. (Display will flash GC450 and the program version number).
- 2. PRESS the "PROG" button twice to display "SYSTEM SETUP."
- **3. PRESS** and **HOLD** the "**UP ARROW**" button (↑) for **ten (10) seconds**, "**GAP CALIBRATION**" will be displayed.
- 4. PRESS the "PROG" button twice to display "MENU ITEMS."
- PRESS the "MENU" button to display "OPTIONAL MENU (1)(2)(3) Clam".
- PRESS the "UP ARROW" button (↑) to change "Y/N".
- 7. PRESS the "FUNCTION" button to obtain "REMOVE IN XXX".
- 8. PRESS the "UP ARROW" button (↑) to obtain the desired number (O 9).
- 9. PRESS the "RIGHT ARROW" button (\rightarrow) to move the cursor, (blinking digit), to the required digit position.
- **10. PRESS** the "FUNCTION" button to display "ALARM ".
- **11. PRESS** the "**UP ARROW**" button (↑) to change the setting (**AUTO/MANUAL**).
- **12. PRESS** the "FUNCTION" button to display "TOP TEMP". Top Temp. Default = OFF.
- **13. PRESS** the "**UP ARROW**" button (\uparrow) to change the value of the flashing digit.
- **14. PRESS** the "**RIGHT ARROW**" button (\rightarrow) to advance the cursor to the right for changing its value.
- **15. PRESS** the "**FUNCTION**" button to display "**BOTTOM TEMP XXX**". Bottom Temp. Default = OFF.
- **16. PRESS** the "**UP ARROW**" button (\uparrow) to change the value of the flashing digit.

- **17. PRESS** the "**RIGHT ARROW**" button (\rightarrow) to advance the cursor to the right for changing its value.
- **18. PRESS** the "FUNCTION" button to obtain "GAP SETTING".
- **19. PRESS** the "**UPARROW**" button (\uparrow) to change the value of the flashing digit.
- **20. PRESS** the "**RIGHT ARROW**" button (\rightarrow) to advance the cursor to the right for changing its value.
- **21.PRESS** the "FUNCTION" button to obtain display "OPTIONAL MENU CLAM". To Label the New menu:
- **22. PRESS** the "**UPARROW**" button (↑) to change the value of the flashing digit.
- **23. PRESS** the "**RIGHT ARROW**" button (\rightarrow) to advance the cursor to the right for changing its value. (Alphanumeric capabilities).
- 24. PRESS the "PROG" button to display "MENU ITEMS".
- **25. PRESS** the "**RIGHT ARROW**" button (\rightarrow) to return to the normal **OPERATING MODE**.

MENU ITEMS

To Add / Program an [OPTION MENU - FLAT]

- 1. **PRESS** and **HOLD** the "**PROG**" button for **five**, (5), **seconds.** (Display will flash GC450 and the program version number).
- 2. PRESS the "PROG" button once to display "MENU ITEMS."
- 3. PRESS the "MENU" button to display "OPTIONAL MENU (1)(2)(3) Flat".
- 4. **PRESS** the "**UP ARROW**" button (\uparrow) to change "**Y**/N".
- 5. PRESS the "FUNCTION" button to obtain "SEAR IN XXX".
- **6. PRESS** the "**UP ARROW**" button (↑) to obtain the desired number (O 9).
- 7. **PRESS** the "**RIGHT ARROW**" button (\rightarrow) to move the cursor, (blinking digit), to the required digit position.
- 8. PRESS the "FUNCTION" button to display "ALARM ".
- **9. PRESS** the "**UP ARROW**" button (↑) to change the setting (AUTO/MANUAL).
- **10. PRESS** the "FUNCTION" button to obtain "TURN IN XXX".
- **11. PRESS** the **"UP ARROW"** button (↑) to obtain the desired number (O 9).
- **12. PRESS** the "**RIGHT ARROW**" button (\rightarrow) to move the cursor, (blinking digit), to the required digit position.
- 13. PRESS the "FUNCTION" button to display "ALARM ".
- **14. PRESS** the "**UP ARROW**" button (\uparrow) to change the setting (**AUTO/MANUAL**).
- **15. PRESS** the "FUNCTION" button to display "REMOVE IN ".
- **16. PRESS** the **"UP ARROW"** button (\uparrow) to obtain the desired number (O 9).

- **17. PRESS** the "**RIGHT ARROW**" button (\rightarrow) to move the cursor, (blinking digit), to the required digit position.
- 18. PRESS the "FUNCTION" button to display "ALARM".
- **19. PRESS the "UP ARROW" button (**↑) to change the setting (AUTO/MANUAL).
- 20. PRESS the "FUNCTION" button to display "TOP TEMP". Flat Mode Top Temp is set to OFF.
- **21. PRESS** the "FUNCTION" button to display "BOTTOM TEMP XXX". Bottom Temp. Default = OFF.
- **22. Press** the "**UP ARROW**" button (\uparrow) to change the value of the flashing digit.
- **23. PRESS** the "**RIGHT ARROW**" button (\rightarrow) to advance the cursor to the right for changing its value.
- 24. PRESS the "FUNCTION" button to obtain display "OPTIONAL MENU FLAT". To Label the New menu:
- **25. PRESS** the "**UP ARROW**" button (\uparrow) to change the value of the flashing digit.
- **26. PRESS** the "**RIGHT ARROW**" button (\rightarrow) to advance the cursor to the right for changing its value. (Alphanumeric capabilities).
- 27. PRESS the "PROG" button to display "MENU ITEMS".
- **28. PRESS** the "**RIGHT ARROW**" button (\rightarrow) to return to the normal **OPERATING MODE**.

PROBE CALIBRATION

MWE-9501, MWEH-9501 (FULL SIZE & HALF SIZE UNITS WITH 4 ZONES PER HALF)

THIS CALIBRATION PROCESS SHOULD BE DONE BI-WEEKLY

Model MWE-9501, MWEH-9501

Bi-Weekly Calibration of Grill Temperature Zones Tools: Digital Pyrometer with Surface Probe

Warning: PERSONAL INJURY FROM BURNS MAY RESULT WHEN COMING IN CONTACT WITH HOT COOKING SURFACES.

NOTE: Calibration of grills is done with release material sheets "**OFF**".

PLEASE READ THESE INSTRUCTIONS FULLY and note some important items regarding the 7.** Eprom Chip.

- 1. The upper platens and lower grill plate should be at operating temperatures to perform this calibration procedure. Press the "MENU" button to select a "CLAM" operation and allow the grill to reach the set temperature and stabilize, (approximately 30 minutes).
- Press and hold the "PROG" button for 5 seconds to enter the program mode, then press "PROG" button (2) times to access the "SYSTEM SETUP".
- 3. Under "SYSTEM SETUP", press the "MENU" button until "PROBE CALIBRATION" is displayed on the controller.
- 4. Press the "FUNCTION" button to display the first zone to be calibrated. The first zone displayed is "TOP TEMP XXX". The zones are displayed in order of TOP, BACK, MIDDLE, and FRONT.

B.FRONT TEMP 350 F

The grill's thermocouple probes are located front to rear, as shown in Figure XX, on each half of the lower grill plate in the center of the cooking zone. Each upper platen has one thermocouple in the center.

- 5. Select a heat zone display, and then place the surface probe of the digital pyrometer directly on the grill at the same heat zone.
- 6. Allow at least 5 seconds for the pyrometer to respond and stabilize. Note the temperature on the pyrometer.

NOTE: Eprom Chip Version 7.** has a special feature for Probe Calibration. To ensure that the calibration is done correctly, and at the best time, the controller has a special alarm that will sound when the grill is ready for calibration. If the alarm is not sounding, then the controller will NOT allow the operator to calibrate the grill. It is important to wait until the alarm sounds before any adjustment of temperature is attempted.

- If the temperature on the grill control display does not match the temperature on the pyrometer, adjust the temperature on the grill control accordingly. The "UP ARROW" (↑) button will increase the displayed temperature in one, (1) degree increments. The "RIGHT ARROW" button will decrease the displayed temperature in one, (1), degree Increments.
- 8. Press the "FUNCTION" button to select the next heat zone.
- 9. Move the pyrometer's surface probe to the newly selected heat zone and repeat steps 6 and 7 above.
- 10. Repeat the procedure for each of the heat zones.
- 11. Continue to cycle through each heat zone repeatedly until all temperatures are within 1 degree.
- 12. Exit the program mode by pressing the "PROG" button, then the "RIGHT ARROW" (\rightarrow)button. This will return the grill to the clam mode originally chosen.

RESULT WHEN COMING IN CONTACT WITH HOT

PROBE CALIBRATION

MWEF-9501, MWEFH-9501 (FULL SIZE & HALF SIZE FLAT UNITS WITH 3 ZONES PER HALF)

NOTE: Calibration of grills is done with release material sheets "OFF".

Warning: PERSONAL INJURY FROM BURNS MAY

THIS CALIBRATION PROCESS SHOULD BE DONE AT

Model MWEF-9501, MWEHF-9501

Bi-Weekly Calibration of Grill Temperature Zones Tools: Digital Pyrometer with Surface Probe

LEAST ONCE EVERY 2 WEEKS

COOKING SURFACES.

PLEASE READ THESE INSTRUCTIONS FULLY and note some important items regarding the 7.** Eprom Chip.

- 1. The upper platens and lower grill plate should be at operating temperatures to perform this calibration procedure. Press the "MENU" button to select a "CLAM" operation and allow the grill to reach the set temperature and stabilize, (approximately 30 minutes).
- 2. Press and hold the "PROG" button for 5 seconds to enter the program mode, then press "PROG" button (2) times to access the "SYSTEM SETUP".
- 3. Under "SYSTEM SETUP", press the "MENU" button until "PROBE CALIBRATION" is displayed on the controller.

NOTE: The upper platen is still exists in the controller. Even though the upper platen does not exist, IT IS IMPERATIVE that the upper platen heat zone is calibrated.

IMPORTANT: THE UPPER PLATEN SHOULD BE CALIBRATED UTILIZING THE BACK ZONE AS ITS HEAT ZONE. When the controller reads "Top Temp - XXXF", your pyrometer should be on the BACK HEAT ZONE. The next zone displayed is "B. Back Temp - XXXF", your pyrometer WILL REMAIN in the back zone. Proceed to the other heat zones.

4. Press the "FUNCTION" button to display the first zone to be calibrated. The first zone displayed is "TOP TEMP - XXX". The zones are displayed in order of TOP, BACK, MIDDLE, and FRONT.

The grill's thermocouple probes are located front to rear, as shown in Figure 4, on each half of the lower grill plate in the center of the cooking zone. Each upper platen has one thermocouple in the center.

- 5. Select a heat zone display, and then place the surface probe of the digital pyrometer directly on the grill at the same heat zone.
- 6. Allow at least 5 seconds for the pyrometer to respond and stabilize. Note the temperature on the pyrometer.

NOTE: Eprom Chip Version 7.** has a special feature for Probe Calibration. To ensure that the calibration is done correctly, and at the best time, the controller has a special alarm that will sound when the grill is ready for calibration. If the alarm is not sounding, then the controller will NOT allow the operator to calibrate the grill. It is important to wait until the alarm sounds before any adjustment of temperature is attempted.

- 7. If the temperature on the grill control display does not match the temperature on the pyrometer, adjust the temperature on the grill control accordingly. The "UP ARROW" button will increase the displayed temperature in one, (1) degree increments. The "RIGHT ARROW" button will decrease the displayed temperature in one, (1), degree Increments.
- 8. Press the "FUNCTION" button to select the next heat zone.
- 9. Move the pyrometer's surface probe to the newly selected heat zone and repeat steps 6 and 7 above.
- 10. Repeat the procedure for each of the heat zones.
- 11. Continue to cycle through each heat zone repeatedly until all temperatures are within 1 degree.
- 12. Exit the program mode by pressing the "PROG" button, then the "RIGHT ARROW" button. This will return the grill to the clam mode originally chosen.

Figure 4 - FULL size electric FLAT thermcouple locations

TROUBLESHOOTING

IN STORE TROUBLESHOOTING GUIDE

	1. New Version EPROM Chip?	1. Re-initialize Unit
CONTROLLER DISPLAYS EEPROM	2. Faulty EPROM Chip or Faulty	2. CALL FOR SERVICE
CORRUPT	Controller.	
	1. Grill Has Not Reached Set	1. Allow grill to reach set
	Temperature Yet.	temperature.
	2. Upper Platen Locking Pin is	2. Pull out Upper Platen Locking
PLATEN WILL NOT COME DOWN	Engaged	Pin.
	3. Press the GREEN Pushbutton, and	3. Either Yes or No, CALL FOR
	then the BLACK Pushbutton. Do	SERVICE
	they been separately?	
	1. Current' Selected' Menu Item	1. Allow grill to cool down to current
	requires a lower set point	menu items set point temperature.
	temperature then the one	
CONTROLLER DISPLAYS	previously selected.	2. NOTE HEAT ZONE (RED
"TOO HOT"	2. One or more heat zones have	LED LIGHT) and CALL FOR
	exceeded the set point temperatures	SERVICE.
	by 79°F (43°C).	3. CALL FOR SERVICE
	3. Temperature is continuing to rise?	
	1 Turn Main Power Switch OFF	1 Possible frequency interruption
	wait 5 seconds and turn back on	Monitor for repetitive error
	to reinitialize controllers	Wollitor for repetitive error.
CONTROLLER DISPLAYS "MOTOR	2 Problem happens only in the	2 Possible Preventative Maintenance
OVERCURRENT"	2. 11001em happens only in the	2. I ossible i reventative Maintenance Needed
	monning:	Inceded.
		3 CALL FOR SERVICE
	1. Are all LED lights flashing RED,	1. Check to make sure that ALL
	both sides or either sides?	power cords are plugged in
		properly. Electric grills have 3
CONTROLLER DISPLAYS "FALLET		cords.
FI EMENT / SHORTED PROBE"		CHECK CIRCUIT BREAKERS.
	2. $1-3$ zones flashing RED?	2. NOTE ZONE AND CALL FOR
		SERVICE.
	1 During Initialization?	3. CALL FOR SERVICE
	1. During initialization.	FOR SERVICE – Possible
		Thermocouple Interface Board or
		Controller
CONTROLLER DISPLAYS "OPEN	2 During Cooking	2 Zone(s) became too hot
PROBE"	2. During cooking	NOTE ZONE AND CALL
		FOR SERVICE Possible Solid
		State Relay Thermocouple
		Thermocounle Interface Boards
		or Controller.
	1. Test is in Progress and heated to	1. Turn Grill off and wait 5 minutes
	465° (241°).	for grill to cool down. Disable
CONTROLLER DISPLAYS "HIGH		Test.
LIMIT"	2. Zone(s) became too hot. Tests are	2. CALL FOR SERVICE.
	not active.	
	3. Possible Frequency Interruption.	1 3. CALL FOR SERVICE.
POSSIBLE ERROR MESSAGES

"Probe Open"

An open probe condition has occurred. The controller will turn the heater controlled by the malfunctioning probe OFF. If the open probe condition should correct itself; the control will return to the ''IDLE MODE ''.

"Clam did not go down"

Occurs if the platen does not reach the proper position (GAP SETTING) in 30 seconds. You may cancel the message by pressing the "TEMP" button.

"Upper Platen Stuck"

Occurs when the controller does not get an upper platen setting signal 15 seconds after it starts to raise

the platen. In order to return to the "IDLE MODE", the controller must get a upper platen setting signal. You

may cancel the message by pressing the "TEMP" button followed by the GREEN ("RAISE") button in order to retry raising the platen.

"Eprom Corrupt"

Displayed at startup when the controller detects a corrupt menu item or when a new version of the

software is loaded. To cancel this message, switch the grill "off" and "on" again at the main power switch.

<u>"High Limit"</u>

Occurs when:

1. The Controller senses a zone at 465(F (241(C)

NOTE: The Controller has 2 High Limit tests located at the end of the menu item list. If the test is enabled, that test will heat the zone (Platen, or Grill) to 465(, and the controller will flash "High Limit"

"Motor Overcurrent"

Occurs when:

- 1. The upper platen has been mechanically resisted the platen will stop.
- 2. The platen control motor is inoperative. Turn the "MASTER POWER" switch OFF, then ON again.

"Faulty Element / Shorted Probe"

Occurs when the controller does not detect a proper temperature response. Also, the RED LED will light, indicating which element /probe is in error.

NOTE: Should all four, (4), LED's flash RED approximately six, (6), minutes after the unit is turned on, ensure that the main three-phase, (large), power cord is plugged in and the main circuit breaker is ON.

TECHNICAL TROUBLESHOOTING

Master Power (ON / OFF) Switch turned ON - Power telite is not lit



Low Internal Product Temperatures



Technical Troubleshooting

Controller Displays "Too Hot"



Controller Displays "EPROM CORRUPT"



Technical Troubleshooting

Controller Displays "FAULTY ELEMENT OR SHORTED PROBE" - Only 1 or 2 zones LED lights are RED



Technical Troubleshooting

Controller displays "OPEN PROBE"



Controller Displays "HIGH LIMIT"



Technical Troubleshooting

Controller displays "FAULTY ELEMENT OR SHORTED PROBE" - All LED's are red



Technical Troubleshooting

Controller Display is BLANK, Main Power (ON / OFF) telite IS LIT

Check for loose or Check for 120VAC at terminal disconnected black wires on YES marked "LIM" & "N" coil of contactor and black wires going to 24VAC transformers. Probable diagnosis NO Trace circuit from terminal marked "LIM" brown wire to Repair Open or damaged back of unit and into molex YES wire plug. Check for open circuit. NO Check for continuity in rear of unit at molex plugs at brown wires marked "50" YES Check opposite side and "51" NO Replace open High Limit in upper platen or repair open wire from molex plug, through conduit and into upper platen.

Technical Troubleshooting

Main Power Switch (ON / OFF) is on - Grill is on - Exhaust fan is not running



Technical Troubleshooting

Master Power (ON / OFF) Switch turned ON - Power Light in On - Grill is not heating



Technical Troubleshooting

Controller Displays "MOTOR OVERCURRENT" - Platen does not move at all



Controller Displays "MOTOR OVERCURRENT" - Platen goes up, and then half way down



MILLIVOLT CONVERSION CHART

Temperature Degrees F°	Temperature Degrees C°	Millivolt Reading
1.8.8		
100	38	0.6
125	52	1.1-1.2
150	65	1.7
175	79	2.3-2.4
200	94	2.9
225	107	3.4-3.5
250	121	4.0-4.1
275	135	4.6
300	149	5.1
325	163	5.7
350	177	6.3
375	191	6.6-6.7
400	204	7.2
415	213	7.6
425	218	8

Millivolt Readings are ESTIMATED and have a + / - .5 Millivolt differential.

Millivolt Readings are also dependent on component temperature. Thermocouples are type "K"

Exploded View - Exterior



Alt. Main Power Switch Assy. Use PRIOR to 0207CL0070



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Control Panel Assembly

Item #	Part Number	Part Description	Function	Kit Component	MWE-9501	MWEH-9501	MWEF-9501
1	1858899	Body Frame	Base Assembly for Grill		Х		Х
1	1858894	Body Frame	Base Assembly for Grill			х	
1	1858883	Body Frame	Base Assembly for Grill				
2	1851698	Grill Plate .750"	Cooking Surface		Х		х
2	1851696	Grill Plate .750"	Cooking Surface			Х	
2	1851694	Grill Plate .750"	Cooking Surface				
3	1859001	Body Side Cover LEFT	Covers Left Side of Grill		Х	Х	х
3	1859003	Body Side Cover LEFT	Covers Left Side of Grill				
4	1859002	Body Side Cover RIGHT	Covers Right Side of Grill		Х	Х	х
4	1859004	Body Side Cover RIGHT	Covers Right Side of Grill				
5	1851901	Control Mounting Panel	Allows Control Panel Mounting		Х		Х
5	1851902	Control Mounting Panel	Allows Control Panel Mounting			Х	
6	1852901	Body Side Cover BACK	Covers Back of Grill		Х		Х
6	1852902	Body Side Cover BACK	Covers Back of Grill			Х	
7	1854101	Leg Brace	Keeps Legs aligned		Х	Х	Х
7	1854102	Leg Brace	Keeps Legs aligned				
8	1792004	Caster w/ Verti-Loc Brake	Rear Legs Support Grill		Х	Х	х
9	1792003	Caster w/ Poly. Core	Front Legs Support Grill		Х	Х	Х
10	1858702	Front Lower Kick Panel	Covers Front of Grill		Х		Х
10	1858705	Front Lower Kick Panel	Covers Front of Grill			Х	
11	1858799	Front Upper Control Panel	Covers Front of Grill / Controller Mount		Х		Х
11	1858798	Front Upper Control Panel	Covers Front of Grill / Controller Mount			Х	
13	1859602	Cancel Pushbutton (Green)	Lowers Platen / Cancels Cook Cycle		Х	Х	Х
14	1859601	Standby Pushbutton (Black)	Lowers Platen / Initiates Standby Mode		Х	Х	Х
15	1859603	Contact Block	Pushbutton Switch		Х	Х	Х
16	1792301	Grill Controller	Controls Grill Operations		Х	Х	Х
17	CK1872602	Grill Controller Seal	Seals Controller to Control Panel	Х	Х	Х	Х
18	1872403	Main Power Switch	Turns Grill ON / OFF	Х	Х	Х	Х
19	1808302	Towel Bar - Full Size	Protects Operator, Supports UHC Patty Tray		Х		Х
19	1808301	Towel Bar - Half Size	Protects Operator, Supports UHC Patty Tray			Х	
20	4516691	EPROM Chip	Stores controller Information		Х	Х	Х
21	1872400	Main Power Switch	PRIOR TO 0207CL0070		Х	Х	Х
21A	CK98-002	Main Power Switch Kit	PRIOR TO 0207CL0070 - Includes 1x1872400, 1x1872500, 1x1872502	х	x	x	x
22	1872500	Main Power Switch Bezel	Reduces cutout in control panel for smaller switch		Х	Х	Х
23	1872502	Main Power Switch Bezel gasket	Seals Bezel to Control Panel		Х	х	х
200	8003128	10-24 X 1/2 MS TH PHIL S/S	Secures Body Sides		Х	Х	х
201	8002107	SMS TH PHIL B 10/32 X 1/2	Secures Body Sides		Х	Х	Х
202	1166900	Shoulder Bolt 10-24 X 5/8	Secures Kick panel		Х	Х	Х
203	8002110	SMS TH PHIL A 10-32 X 2	Secures control panel		Х	Х	Х
204	8001221	6/32 Nylon Insert Lock Nut	Secures Controller to control panel		Х	Х	Х
205	8003126	1/4-20 X 1-1/4 MS TH SL S/S	Secures Towel Bar		Х	х	х
206	8003140	10-24 X 3/8 MS TH PHIL	Secures Flue Box mounting bracket (Not Supplied) to back splash		x	x	x

Upper Platen Assembly



Item #	Part Number	Part Description	Function	Kit Component	MWE-9501	MWEH-9501	MWEF-9501	MWE-9801	MWEH-9801
26	1854403	ATX Conduit	Protects Upper Platen Wiring		Х	Х		Х	Х
26A	CK1854403	ATX Conduit Repair Kit	Includes 1x1854403, 2x1854506	Х	Х	Х		Х	х
26B	CK98-004	ATX Conduit Replacement Kit	Includes 1X1854403, 2x1854504, 2x1854505,	х	Х	х		х	х
27	1854505	Conduit Seal	Reduces Grease Migration		Х	х		х	х
28	1854506	Conduit Metal Clad Sleeve	Compression Sleeve for Conduit		Х	х		х	х
29	1854504	1/2" X 45 Degree Fitting	Connects Conduit to Platen Lid / Back Splash		Х	х		х	х
30	1858401	Platen Lid	Platen Lid		Х	Х		Х	
31	CK1872601	Platen Lid Seal	Seals Platen Lid to Platen Cover	х	х	х		х	х
33	1857105	Pivot Stop Spacer	Disables use of Locking Pin		Х	Х		Х	х
33*	CK02-514	Picto Stop Spacer Kit	Includes 2x1857105	Х	Х	Х		Х	Х
34	1858501	Pivot Stop Knob	Holds Lock Pin in sleeve		Х	Х		Х	Х
35	1858502	Pivot Stop Pin	Locks Platen in up position		Х	Х		Х	х
36	1859301	Pivot Stop O-ring 1/4"	Seals Carriage Block Opening		Х	Х		Х	Х
37	1859302	Pivot Stop O-ring 3/8"	Seals Carriage Block Opening		Х	Х		Х	Х
38	1855903	Teflon Washer	Prevents Rubbing of platen arms and carriage blocks		Х	Х		Х	Х
39	1859299	Platen Arm Weld Assy.	Supports Platen		Х	Х		Х	Х
40	1858305	Teflon Bar Clip (Right)	Supports Teflon Rear Rod (RIGHT SIDE)		Х	Х		Х	Х
40A	1858304	Teflon Bar Clip (Left)	Supports Teflon Rear Road (LEFT SIDE)		Х	Х		Х	Х
41	1859102	Platen Adjuster Cap	Platen Adjuster Grease Covers		Х	Х		Х	Х
42	1859103	Platen Adjuster Lock Nut	Locks Adjustment in Place		Х	Х		Х	Х
43	8005401	Shoulder Bolts	Connects Platen to Platen weld assy.		Х	Х		Х	Х
44	1859101	Platen Adjuster Nut	Used to Raise / Lower (Adjust) Platen Gap		Х	Х		Х	х
45	1856702	Platen Weight	Adds Weight for proper searing of product		Х	Х		Х	Х
46	1011201	Chrome Spacers	Supports Platen Weights		Х	х		х	Х
49	1859401	Platen Thermocouple	Senses Upper platen temperature		Х	Х		Х	Х
50	1859402	Platen Thermocouple Bayonnet Adapter	Mounts Platen thermocouple		Х	Х		Х	Х
51	1853701	Teflon Sheet Front Rod	Used for Mounting Teflon Sheets		Х	Х		Х	Х
52	1859501	Platen Handle	Handle for Upper Platen		Х	Х		Х	Х
53	1856601	Platen 208V	Upper Platen Assy 208V - Includes 1859402	Х	*	*		*	*
53	1856602	Platen 220V	Upper Platen Assy 220V - Includes 1859402	Х	*	*		*	*
53	1856603	Platen 240V	Upper Platen Assy 240V - Includes 1859402	Х	*	*		*	*
54	1857105	Arm Carriage Block Rt. W/Stop	Supports Platen Arms to Shafts		Х	Х		Х	Х
55	1857104	Arm Carriage Block Lt. W/O Stop - DISCONTINUED - Replace w/ 57	Supports Platen Arms to Shafts		х	х		х	х
56	1857103	Arm Carriage Block Rt. W/O Stop - DISCONTINUED - Replace w/ 54	Supports Platen Arms to Shafts		х	х		х	х
57	1857102	Arm Carriage Block Lt. W/Stop	Supports Platen Arms to Shafts		Х	Х		Х	Х
60	1858307	Platen Cover Bracket	Acts as Washer for Locknut		Х	Х		Х	Х
61	1781301	High Limit	Cuts power to grill if opened at 500F (260C)						
	* - Indicate	es order the appropriate voltage for your							
200	8003128	10-24 X 1/2 MS TH PHIL S/S	Secures Platen Lid to Platen Assy		Х	Х		Х	Х
207	8003210	8/32 X 3/8 PH Self Tap PHIL	Secures Hi Limit to Platen		Х	Х		Х	Х
208	8001207	Hex Nut 1/4-20 Lock Nut	Secures Shoulder bolt to platen		Х	Х		Х	Х
209	8000206	5/16 Lock Washer	Secures Lock Nut for Shoulder Bolt		Х	х		Х	х
210	8003424	MS HH 1/4-20 X 2	Mounts Platen Weight		Х	х		х	х

Interior Grill



Item #	Part Number	Part Description	Function	Kit Component	MWE-9501	MWEH-9501	MWEF-9501	MWE-9801	MWEH-9801
70	1950404	Thermocouple Bayonnet Adapter	Connect Thermosouple to grill plate		v	v		v	
70	1059404	- LOWEI			^ V	^ V		^ V	^ V
71	1639403	Contractor	Sense Temperature of grin place Zone(s)		×	×	× ×	A V	×
72	1702202	Contactor Mater Grand Controller	Switches Power from Input to Elements/Relays		X	X	X	X	X
73	1/92302	Motor Speed Controller	Switches Power to Linear Actuator		X	X		X	X
/3a	1811904		Replaceable Relay on Motor Speed Control		X	X	V	X	X
74	1269800	Iransformer	Powers to 24VAC for Main Controller		X	X	X	X	X
75	1860101		Junction for Internal Control Wiring		X	X	X	X	X
76	185/20/	Heating Element 208V	208V 2500W Grill Plate Heating Element		*	*	*	*	*
76	185/203	Heating Element 220V	220V 2500W Grill Plate Heating Element		*	*	*	*	*
/6	1857209	Heating Element 230V	230V 2295W Grill Plate Heating Element		*	*	* 	*	*
	185/302	Heating Element Bracket	Mounts Heating Element to Grill Surface		Х	Х	X	Х	X
78	1857401	Element Cover Bracket	Covers Heating Elements		Х	Х	Х	Х	Х
79	No PN	Insulation Blanket	Insulate Heat under grill surface		Х	Х	Х	Х	Х
80	1857501	Insulation Cover Bracket	Covers Insulation		Х	Х	Х	Х	Х
81	1811901	Solid State Relay	Switches power to heating elements		Х	Х	Х	Х	Х
81A	CK1811901	Solid State Relay Kit	Includes 1x1811901, 1x1811903	Х	Х	Х	Х	Х	Х
82	1811903	Heat Sink Pad	Absorbs heat from Solid State Relay		Х	Х	х	х	х
83	1851401	Heat Sink Plate	Absorbs heat from Solid State Relays		Х	Х	Х	Х	Х
84	1792303	Thermocouple Interface Board	Junction for Thermocouples - Includes 1x1792304	Х	Х	Х	Х	Х	Х
85	1851901	Control Mounting Panel	Mounting bracket for internal controls		Х		Х	Х	
85	1851902	Control Mounting Panel	Mounting bracket for internal controls			Х			х
86	1792304	Ribbon Cable	Interface thermocouples between Controller and thermocouple Interface Board		x	x	x	x	x
87	1868301	High Hat Bracket	Used to mount thermocouple Int Board		х	х	Х	х	Х
223	8000202	Lockwasher 8 X 19/64 X 3/64	To secure nut to Thermocouple Int Board		х	х	х	х	х
224	8003203	MS PAN HD SLOR 6/32 X 3/4	To secure Thermocouple Int Board to High Hat		Х	Х	х	х	X
225	8001202	Hex Nut 6/32	To secure Thermocouple Int Board to High Hat		Х	Х	X	х	X
230	8001502	· ·	To secure screw to Thermocouple Interface Board		Х	Х	X	х	X
231	4518173	5/16-18 Pal Nut	To secure elements and element pans		х	х	х	х	x
232	1120324	Element Assy Stud - Short	To secure elements and element page		х	х	x	x	x
233	8020501	Element Assy Stud - Lona	To secure elements and element pans		X	X	x	x	x





Lift Assembly - Exploded Views



Item #	Part Number	Part Description	Function	Kit Component	MWE-9501	MWEH-9501	MWEF-9501	MWE-9801	MWEH-9801
90	1857703	Seal Cap	Compresses and covers scraper seal		х	х		х	х
90A	1857702	Seal Cap	PRIOR to 9905CL0055		Х	Х		х	х
91	1874301	Seal Cap Screw O-ring	Reduces grease migration through screw hole		Х	Х		х	х
92	1862904	Scraper Seal - FULL	Wipes shaft upon movement		Х	Х		Х	х
92	1862903	Scraper Seal - SPLIT	Wipes shaft upon movement		Х	Х		Х	Х
93	1874201	Seal Cap O-ring	Reduces grease migration under seal cap		Х	Х		Х	Х
94	1863396	Seal Cap Retaining Bracket - LEFT	Fasterning point for Seal Caps		Х	Х		Х	х
94A	1863398	Seal Cap Retaining Bracket - LEFT	PRIOR to 9905CL0055		Х	Х		Х	Х
95	1863397	Seal Cap Retaining Bracket - RIGHT	Fasterning point for Seal Caps		Х	Х		Х	Х
95A	1863399	Seal Cap Retaining Bracket - RIGHT	PRIOR to 9905CL0055		Х	Х		Х	Х
96	1857101	Stainless Steal Shaft	Connects Carriage Blocks to Linear Actuator		Х	Х		Х	Х
97	1856901	Cross Member	Connects Linear Actuator to Shafts		Х	Х		Х	Х
98	1856902	Cross member Clamps	Clamps cross member to shafts		Х	Х		Х	Х
99	CK1854803	Bushing Blocks w/ bronze bushing	Keeps shafts plumb	Х	Х	Х		Х	Х
100	1858298	Lift Mechanism Rack	Supports and holds lift mechanism together		Х	Х		Х	Х
101	1812401	Linear Actuator	Raises and Lowers Platen		Х	х		х	х
102	1857001	Actuator Base brace	Supports bottom of Actuator Frame Assy		х	Х		Х	х
103	1863601	Actuator Base Bracket	Prevents Rack Movement		х	х		х	х

Stop Limit Switch Assy Exploded



Limit Switch Assy Exploded



104	1858001	Actuator Clevis Mount	Secures Actuator Rack Assembly		x	х		х	х
105	1863199	Actuator Cross Clamp	Maintains integrity of rack		х	х		х	х
106	CK1856802	Cam Follower Assembly	Controls Platen pivoting	Х	х	х		х	х
107	1857801	Silicone Seal	Holds wiper in place		x	х		х	х
108	1863901	Teflon Washer	Reduces grease migration under seal cap		x	х		х	х
109	CK98-001	Seal Kit	Includes 2x1862904, 2x1857801, 2x1863901		x	х		х	х
110	1874601	2 Speed Fan Box Cover	Covers 2 speed fan box		х	х	х	х	х
111	1876601	Washer			х	х	х	Х	Х
112	1874702	Straight Receptacle			х	х	х	Х	Х
113	1811902	2 Speed Fan Relay	Switches power to exhaust fan		х	х		Х	Х
114	1864201	2 Speed Fan Relay / Controller Interface	Monitors output from Controller		х	х		х	х
115	1874602	2 Speed Fan Box	Mounting box for 2 Speed Fan Components		х	х	х	х	х
116	1028800	Snap Bushing			Х	Х	Х	Х	Х
117	1855601	Limit Switch	Determines position of upper platen		х	х		Х	Х
118	1857601	Limit Switch Bracket	Mounts Limit Switch		х	х		Х	Х
120	1855604	Limit Switch	Disrupts voltage to Linear Actuator		x	х		х	х
121	1860003	Overrun Limit Switch mounting bracket	Mounting bracket for overrun limit switch		х	х		Х	Х
121A	CK01-501	Overrun Limit Switch Kit	Includes ALL items shown & 1859835	Х	X	х		х	х
122	4517948	Nylon Spacer	Spacer for Overrun limit switch		x	х		х	х

201	8002107	SMS TH PHIL B 10/32 X 1/2					
209	8000206	5/16 Lockwasher	To secure nut to frame	Х	Х	Х	Х
210	8003424	MS HH 1/4-20 X 2	To secure actuator base bracket to base	х	Х	х	х
211	8001505	4-40 Nylon Nut	To secure stop limit switch to bracket	х	х	х	Х
212	8003437	MS HH 8-32 X 1 SLOT S/S	To secure seal cap	х	Х	Х	Х
213	8003423	MS HH 1/4-20 X 1-1/4 Grade 5	To secure bushing blocks to frame	Х	х	Х	Х
214	8000203	Lockwasher 1/4 x 1/2 x 1/16	To secure bolt to frame	х	х	х	х
215	8000320	Flat Washer 3/8 x 7/8 x 3/16	To secure nut to frame	Х	х	Х	Х
216	8003222	4-40 MS PH Slotted	To secure screw to stop limit switch	х	х	х	х
217	8001208	Hex Nut 5/16 - 18	To secure actuator frame	х	х	х	х
218	8003430	MS HH 1/4-20 X 1/2	To secure stop limit bracket to frame	х	Х	Х	Х
219	8003404	MS HH 1/4-20 X 3/4	To secure actuator base brace to base	х	х	х	х
220	8003410	MS HH 5/16-18 X 3/4	To secure cam follower assy to backsplash	х	Х	Х	Х
221	8003433	MS HH 10-24 X 1 SLOT S/S	To secure seal cap	х	Х	Х	Х
222	8001206	Hex Nut 1/4-20				х	х
223	8000202	Lockwasher 8 X 19/64 X 3/64	To secure 2 speed fan relay board	х	Х	Х	Х
224	8003203	MS PAN HD SLOR 6/32 X 3/4	To secure 2 speed fan relay board	х	х	х	х
NS	1859801	Harness - Solid State Relay	From secondary side of Solid State Relays				
NS	1859802	Harness - Control	From 15 - Pin Moles Plug on Controller				
NS	1859803	Harness - Main Power Switch	From Molex to Terminal Block				
NS	1859807	Harness - Platen	From Molex to Platen				
NS	1859808	Harness - Element	From Molex to Grill Surface Elements				
NS	1859810	Harness - Main Power Switch	For use with switch PN 1872400 / 2401 - From Main Power Switch to Molex				
NS	1859833	Harness - Main Power Switch	For use with switch PN 1872403 / 2404 - From Main Power Switch to Molex				
NS	1859835	Overrun Limit Switch Harness	From Overrun Limit Switch to Linear Actuator				

CONTROLLER MENU ITEMS

THE FOLLOWING TABLE LISTS MENU ITEMS DEFAULTED IN THE MAIN CONTROLLER AS NEW. TO REPROGRAM ANY FUNCTION OR FEATURE BELOW, SEE PROGRAMMING.

** THE MENU ITEMS LISTED BELOW ARE FOR EPROM CHIP VERSIONS UP TO 6.20 - FOR EPROM CHIP VERSION 7.XX, PLEASE SEE THE FOLLOWING TABLE FOR MORE INFORMATION **

** TO IDENTIFY YOUR EPROM CHIP, PRESS AND HOLD THE PROG BUTTON THE CONTROLLER **

	Epron	n Chip					Set 1	Гетр	Set Temp		
	Vers	ion #					(I	=)	(0	C)	
3.01	3.52	4.00 4.01 4.02	6.20	Menu Item Name	Function (Duty)	Time (Secs)	Lower	Upper	Lower	Upper	Gap Setting
YES	YES	YES	YES	OFF (Always first) 6.20 Chip & Higher>	NONE	NONE	OFF	OFF	OFF	OFF	.090 .083
NO	NO	NO	YES	Preheat	"Ready to Cook"	NONE	350	425	177	218	.083
YES	YES	YES	VEO	10:1 - CLAM	Remove	36	250	405	477	010	055
			15	6.20 Chip & Higher>	Toast Buns	0	350	425		210	.255
YES	YES	YES	VES	4:1 - CLAM	Remove	104	250	105	177	210	415
			I IES	6.20 Chip & Higher>	Toast Buns	0	350	425		218	.415
YES	YES	YES	NO	Circular Bacon - CLAM	Remove	88	325	400	163	204	.090
NO	NO	NO	YES	Strip Bacon - CLAM	Remove	23	350	425	177	218	.090
YES	YES	YES	NO	Sausage - CLAM (THD)	Remove	48	325	400	163	204	.350
YES	YES	YES	YES	Sausage - CLAM (FRZ)	Remove	82	350	425	177	218	.350
YES	YES	YES	YES	McRib - CLAM	Remove	163	350	425	177	218	.530
NO	NO	YES	YES	Steak - CLAM	Remove	82	350	425	177	218	.415
VEO				Orillad Chickop ELAT	Turn	115	250	405	477	010	
TES	TES	NO	NO	Gniled Chicken - FLAT	Remove	230	350	425		218	NONE
		VES	VES	Crilled Chickop ELAT	Turn	195	250	105	177	210	
NO		TEO	TES	Ghiled Chicken - FLAT	Remove	410	350	425		210	NONE
YES	YES	YES	YES	Folded Eggs - FLAT	Remove	35	265	OFF	130	OFF	NONE
VEQ	VES	VES		Considen Passon ELAT	Turn	10	265	OFF	120	OFF	
TES	TES	TEO	NO	Canadian Bacon - FLAT	Remove	20	205	UFF	130		NONE
YES	YES	YES	YES	Round Eggs	Remove	150	265	OFF	130	OFF	NONE
NO	NO	NO	YES	Chick F Bread - FLAT	Remove	100	350	425	177	218	NONE
					Sear	20					
YES	YES	YES	YES	10:1 - FLAT	Turn	75	340	OFF	171	OFF	NONE
					Remove	125					
					Sear	20					
YES	YES	YES	YES	4:1 - FLAT	Turn	150	365	OFF	185	OFF	NONE
					Remove	270					
VES	VES	VES	VES		Turn	270	365	OFF	185	OFF	
		120			Remove	390					

CONTROLLER MENU ITEMS

VES	VES	VES			Turn/Sear	90	265		105		
TES	TES	TES		Sausage - FLAT (THD)	Remove	180	300	UFF	100		NONE
VES	VES	VES	VES		Turn/Sear	150	265		105		
TES	TES	TES	TES	Sausage - FLAT (FRZ)	Remove	270	300	UFF	100		NONE
VEQ	VEQ	VEQ	VEQ	Hotcakos - EL AT	Turn	90	365	OFF	185	OFF	
123	123	123	123	HUICAKES - I LAT	Remove	140	303		105		NONE
VES	VES	VES	NO	Ham - FLAT	Turn	30	365	OFF	185	OFF	NONE
		120			Remove	60	505		105		NONE
VES	VEQ	VES		Sausado Burrito - ELAT	Stir	90	365	OFF	185	OFF	
123		123			Remove	180	303		105		NONE
YES	YES	YES	YES	Option Menu 1 - CLAM	Remove	0	0	0	0	0	.469
YES	YES	YES	YES	Option Menu 2 - CLAM	Remove	0	0	0	0	0	.250
YES	YES	NO	YES	Option Menu 3 - CLAM	Remove	0	0	0	0	0	.250
NO	NO	NO	YES	Option Menu 4 - CLAM	Remove	0	0	0	0	0	.250
				through							
NO	NO	NO	YES	Option Menu 20 - CLAM	Remove	0	0	0	0	0	.250
YES	YES	YES	YES	Option Menu 1 - FLAT	Turn/Sear/ Remove	0	0	0	0	0	NONE
YES	YES	NO	YES	Option Menu 2 - FLAT	Turn/Sear/ Remove	0	0	0	0	0	NONE
YES	YES	NO	YES	Option Menu 3 - FLAT	Turn/Sear/ Remove	0	0	0	0	0	NONE
				through							
NO	NO	NO	YES	Option Menu 8 - FLAT	Turn/Sear/ Remove	0	0	0	0	0	NONE

BOTTOM TEMP (F) OFF 265 350 265 350 350 350 350 350 350 350 350 TOP OFF OFF OFF 425 425 425 425 425 425 425 425 425 Е) ALARM NONE NONE NONE NONE NONE NONE NONE TOAST BUNS NONE AUTO NONE NONE AUTO NONE NONE NONE NONE NONE TOAST BUNS TIME NONE NONE NONE NONE NONE 0 0 MUST REMOVE NONE TIME NONE NONE NONE NONE NONE NONE NONE NONE NONE 0 0 GAP (MULTI) 245 089 0.09 0.09 .265 425 400 415 0 350 0 530 0 0 ł 0 0 0 ŀo 0 0 l 0 0 0 0 0 l I l I GAP (NON-MULTI) .415 0.09 0.09 089 .255 350 530 1 .415 ł i ł ł ł į. į į İ 111 į į İ Ì L 1 1 I 1 ł 1 I I I 1 L ALARM MANUAL NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE AUTO NONE NONE NONE AUTO NONE NONE AUTO AUTO AUTO AUTO AUTO AUTO AUTO AUTO NONE TIME NONE 410 195 100 163 104 150 107 37 22 0 0 0 0 0 23 0 0 0 0 0 82 0 0 0 0 0 0 35 ł YES(ONLY) READY TO COOK REMOVE IN **REMOVE IN** STAGE # 2 REMOVE IN REMOVE IN REMOVE IN REMOVE IN REMOVE IN **REMOVE IN** STAGE # 1 STAGE # 2 STAGE # 3 STAGE # 1 STAGE # 2 STAGE # 1 STAGE # 3 **REMOVE IN** STAGE # 1 STAGE # 3 REMOVE IN STAGE # 1 FUNCTION STAGE # 3 STAGE # 2 STAGE # 2 STAGE # 3 STAGE # 2 STAGE # 3 STAGE # 1 **TURN IN** NONE YES(ONLY) ACTIVE YES YES YES YES YES YES YES YES YES 9 SAUSAGE-CLAM FZN STRIP BACON-CLAM FOLDED EGGS-FLAT ROUND EGGS-FLAT **GRILL CHICK-FLAT** CHICK F BRD-FLAT McRIB-CLAM STEAK-CLAM 10:1-CLAM PREHEAT 4:1-CLAM TEM OFF

CONTROLLER MENU ITEMS (EPROM CHIP VER. 7.XX)

CONTROLLER MENU ITEMS (EPROM CHIP VER. 7.XX)

ACTIVE		TIME	ALARM	GAP (NON- MULTI)	GAP (MULTI)	MUST REMOVE TIME	TOAST BUNS TIME	TOAST BUNS ALARM	TOP TEMP (F)	BOTTOM TEMP (F)
C	SEAR IN THRN IN	20 75	MANUAL			INCIN	ADNE	NONE	OEE	340
2	REMOVE IN	125	AUTO						5	
	SEAR IN	20	MANUAL							
0 N	TURN IN	150	AUTO			NONE	NONE	NONE	OFF	365
	REMOVE IN	270	AUTO							
(TURN IN	270	AUTO	I	I				L	JOC
D	REMOVE IN	390	AUTO	1		NONE		NONE		cor
(TURN/SEAR IN	150	MANUAL	1	I	L			L	L C
) Z	REMOVE IN	270	AUTO			NONE	NONE	NONE	CFT O	cor
U L X	TURN IN	06	AUTO	I	I				L L (ЦÚС
N L	REMOVE IN	140	AUTO		-	NONE	NONE	NONE	CFT C	COS
	REMOVE IN	0	AUTO	.469	.469					
Ç	STAGE # 1	0	NONE	1	0					
	STAGE # 2	0	NONE	1	0					
	STAGE # 3	0	NONE	1	0					
	REMOVE IN	0	AUTO	.250	.250					
	STAGE # 1	0	NONE	I	0					
	STAGE # 2	0	NONE	I	0					
	STAGE # 3	0	NONE	-	0					
	SEAR IN	0	AUTO	1						
NO	TURN IN	0	AUTO	1		NONE	NONE	NONE	OFF	OFF
	REMOVE IN	0	AUTO	1						
ES(ONLY)	READY TO CLEAN	NONE	NONE	060'	060.	NONE	NONE	NONE	325	325

Full Size MWE-9501 Wiring diagram - SK98-003





Full size MWE-9501 Wiring diagram - SK98-004



MWE/MWEH-9501 Control Wiring Diagram - 18597S02



MWE-9501 Element Wiring Diagram - 18597S01





MWEH-9501 Element Wiring Diagram - 18597S03



MWEF-9501 Control Wiring Diagram - 18597S05



MWEF-9501 Element Wiring Diagram - 18597S04

TEMPERATURE CONVERSION (F / C)

С	F	С	F	С	F	С	F	С	F
27	80	54	128	80	176	107	224	134	272
27	81	54	129	80	177	107	225	134	273
28	82	55	130	81	178	108	226	134	274
28	83	55	131	81	179	108	227	135	275
29	84	56	132	82	180	109	228	135	276
30	85	56	133	83	181	110	229	136	277
30	86	57	134	83	182	110	230	137	278
31	87	57	135	84	183	111	231	137	279
31	88	58	136	84	184	111	232	138	280
32	89	59	137	85	185	112	233	138	281
32	90	59	138	85	186	112	234	139	282
33	91	60	139	86	187	113	235	139	283
33	92	60	140	86	188	114	236	140	284
34	93	61	141	87	189	114	237	141	285
34	94	61	142	88	190	115	238	141	286
35	95	62	143	88	191	115	239	142	287
36	96	62	144	89	192	116	240	142	288
36	97	63	145	89	193	116	241	143	289
3/	98	63	146	90	194	11/	242	143	290
3/	99	64	14/	90	195	11/	243	144	291
38	100	64	148	91	196	118	244	144	292
38	101	65	149	91	197	119	245	145	293
39	102	65	150	92	198	119	246	146	294
40	103	66	151	93	199	120	247	146	295
40	104	66	152	94	200	120	248	147	296
41	105	67	153	94	201	121	249	147	297
41	100	60	154	94	202	121	250	148	298
42	107	60	100	95	203	122	201	140	299
42	100	<u> </u>	150	90	204	122	252	149	300
43	1109	70	157	90	205	123	200	149	202
43	110	70	150	97	200	124	254	150	202
44	112	71	160	08	207	124	256	151	303
44	112	72	161	90	200	125	257	152	305
45	114	72	162	90	203	125	258	152	306
46	115	73	163	99	210	126	259	153	307
46	116	74	164	100	212	120	260	153	308
47	117	74	165	101	213	127	261	154	309
48	118	75	166	101	214	128	262	154	310
48	119	75	167	102	215	128	263	155	311
49	120	76	168	102	216	129	264	156	312
49	121	76	169	103	217	130	265	156	313
50	122	77	170	103	218	130	266	157	314
50	123	77	171	104	219	130	267	157	315
51	124	78	172	105	220	131	268	158	316
52	125	78	173	105	221	131	269	158	317
52	126	79	174	106	222	132	270	159	318
53	127	79	175	106	223	133	271	159	319

TEMPERATURE CONVERSION (F / C)

С	F	С	F	С	F	С	F	С	F
160	320	187	368	213	416	240	464	267	512
161	321	187	369	214	417	241	465	267	513
161	322	188	370	214	418	241	466	268	514
162	323	188	371	215	419	242	467	268	515
162	324	189	372	216	420	242	468	269	516
163	325	189	373	216	421	243	469	269	517
163	326	190	374	217	422	243	470	270	518
164	327	191	375	217	423	244	471	271	519
164	328	191	376	218	424	244	472	271	520
165	329	192	377	218	425	245	473	272	521
166	330	192	378	219	426	246	474	272	522
166	331	193	379	219	427	246	475	273	523
167	332	193	380	220	428	247	476	273	524
167	333	194	381	221	429	247	477	274	525
168	334	194	382	221	430	248	4/8	2/4	526
168	335	195	383	222	431	248	479	2/5	527
169	336	196	384	222	432	249	480	2/6	528
169	337	196	385	223	433	249	481	2/6	529
170	338	197	380	223	434	250	482	2//	530
171	339	197	38/	224	435	241	483	2//	531
170	240	190	200	224	430	241	404	270	<u> </u>
172	240	190	200	220	43/	252	400	270	524
172	2/2	100	201	220	430	252	400	279	525
173	343	200	302	220	439	253	407	219	536
17/	3/15	200	303	227	<u>440</u> //1	25/	/180	281	537
174	3/6	201	30/	228	<u> </u>	254	/100	281	538
175	347	202	395	228	443	255	490	282	539
176	348	202	396	229	444	256	492	282	540
176	349	203	397	229	445	256	493	283	541
177	350	203	398	230	446	257	494	283	542
177	351	204	399	231	447	257	495	284	543
178	352	204	400	231	448	258	496	284	544
178	353	205	401	232	449	258	497	285	545
179	354	206	402	232	450	259	498	285	546
179	355	206	403	233	451	259	499	286	547
180	356	207	404	233	452	260	500	287	548
181	357	207	405	234	453	261	501	287	549
181	358	208	406	234	454	261	502	288	550
182	359	208	407	235	455	262	503	288	551
182	360	209	408	236	456	262	504	289	552
183	361	209	409	236	457	263	505	290	553
183	362	210	410	237	458	263	506	290	554
184	363	211	411	237	459	264	507	291	555
184	364	211	412	238	460	264	508	291	556
185	365	212	413	238	461	265	509	292	557
186	366	212	414	239	462	266	510	292	558
186	367	<u> </u>	ı 415	239	463	1 266	511	293	559

MANUAL CORRECTIONS AND MODIFICATIONS

While every effort has been made to ensure that the information contained in this manual provided to you is updated, and contains accurate information, if you believe that an error has been made, or simply would like to suggest modifications, or improvements, please fill in the information below and fax it to 570-636-9874 or mail it to the address below. A review of any received forms will be considered on a regular basis.

Name			
Address			
City	State	Zip	
Page Number in which error exists			
Description of Error			
Suggestions or improvements to this	s manual:		
	Fax to 570-6	536-9874	

- or -

Mail to:

Garland Commercial Industies McDonalds Sale / Service Account 185 East South Street Freeland, PA 18224

Thank you for your continued support! Garland P/N Rev 7d P/N 1881010 IN(021605)



Rev 7e P/N 1881010 IN(072105)