# Star/IVax® ELECTRIC COUNTER CHAR-BROILER

MODEL 5124CF & 5136CF

Installation and Operation Instructions

2M-Z16003 Rev. B 03/21







## **SAFETY SYMBOL**





These symbols are intended to alert the user to the presence of important operating and maintenance instructions in the manual accompanying the appliance.

# RETAIN THIS MANUAL FOR FUTURE REFERENCE NOTICE

Using any part other than genuine Star factory supplied parts relieves the manufacturer of all liability.

Star reserves the right to change specifications and product design without notice. Such revisions do not entitle the buyer to corresponding changes, improvements, additions or replacements for previously purchased equipment.

Due to periodic changes in designs, methods, procedures, policies and regulations, the specifications contained in this sheet are subject to change without notice. While Star International Holdings Inc., Company exercises good faith efforts to provide information that is accurate, we are not responsible for errors or omissions in information provided or conclusions reached as a result of using the specifications. By using the information provided, the user assumes all risks in connection with such use.

Authorized Service Agent Listing

# **MAINTENANCE AND REPAIRS**

Contact your local authorized service agent for service or required maintenance.

Please record the model number, serial number, voltage and purchase date in the area below and have it ready when you call to ensure a faster service.

Model No.		e listing provided with the unit
Serial No.	or	
Voltage	for an update	ed listing go to:
	Website:	www.star-mfg.com
Purchase Date		
	Service I	Help Desk
	Business Hours:	8:00 am to 4:30 p.m. Central Standard Time
	Telephone:	1-800-264-7827
	Website:	www.star-mfg.com
	Mailing Address:	Star Manufacturing International Inc. 265 Hobson Street Smithville, TN 37166 U.S.A

Specifications													
Model Volt	Voltago	kW	Amps	A	Amps 3Ph Infinite		Infinite	nite Cooking	Dimensions		Weight		
	Voltage   k\	KVV	1PH	Х	у	Z	Controls	Controls Surface	Width	Depth	Height	Installed	Shipped
5124CF	208V	6.6	31.8	21.8	21.8	13.8	2	396 sq in	24"			98 lb	145 lb
312401	240V	0.0	27.5	18.8	18.8	11.9		(2555 sq cm)	(61cm)	25 5/8"	14 1/4"	(45 kg)	(66 kg)
5136CF	208V	9.9	47.6	27.6	27.6	27.6	2	594 sq in	36"	(65 cm)	(36 cm)	175 lb	215 lb
31300	240V 9.5	'F 240V 9.9	41.3	23.9	23.9	23.9	]	(3832 sq cm)	(91cm)			(80 kg)	(98 kg)

# **GENERAL INSTALLATION INSTRUCTIONS**

This equipment is designed and sold for commercial use only by personnel trained and experienced in its operation and is not sold for consumer use in and around the home nor for use directly by the general public in food service locations.

Before using your new equipment, read and understand all the instructions & labels associated with the unit prior to putting it into operation. Make sure all people associated with its use understand the units operation & safety before they use the unit.

All shipping containers should be checked for freight damage both visible and concealed. This unit has been tested and carefully packaged to insure delivery of your unit in perfect condition. If equipment is received in damaged condition, either apparent or concealed, a claim must be made with the delivering carrier.

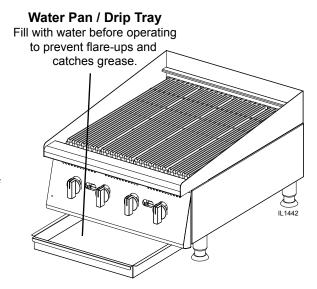
Concealed damage or loss - if damage or loss is not apparent until after equipment is unpacked, a request for inspection of concealed damage must be made with carrier within 15 days. Be certain to retain all contents plus external and internal packaging materials for inspection. The carrier will make an inspection and will supply necessary claim forms.

These Electric Char-broilers are equipped for the voltage and wattage indicated on the nameplate mounted on the front panel. These units are designed to operate on alternating current (AC) only. **DO NOT CONNECT TO DIRECT CURRENT (DC).** 

The installation of this appliance should conform to the national electric code and local electric codes and ordinances and the local electric company rules and regulations.

For your protection, we recommend that a qualified electrician install this appliance. The electrician should be familiar with electrical installations and local electrical requirements. The external wiring should be in conduit or an approved type of flexible cable suitable for operation at 90° C and sized to carry the load. Use copper wire only. The supply circuit should be properly fused and equipped with a means of disconnecting as required by local electrical code. The body of the appliance should be grounded (Do not ground to a gas supply pipe).

- Locate the unit: Do not install the unit closer than 12 inches from a side wall and/or closer than 9 inches from a rear wall.
- Level the char-broiler by adjusting the feet, which have provision for 1 inch of adjustment. This adjustment also allows a perfect alignment to be achieved with other Star-Max™ units.
- The pigtail leads can be accessed by removing the cover plate from the back of the broiler.
- 4. Fill the water pan on the broiler prior to use. Water should be flush with the bottom of the splash baffles. Make sure water is present in the pan at all times. Note: The pan is easily removable for cleaning.





## CARE MUST BE TAKEN WHEN OPENING PAN TO PREVENT SPILLING.

- 5. The charbroiler is equipped with modular grates that are readily removable for cleaning. Each heated section is controlled by a separate heat control switch.
- 6. Seasoning Set the heat control switch to the low position and preheat for about 15 to 20 minutes. Using a cloth, spread a thin film of cooking oil over the top of the grate surface. Allow the film to remain on the grate for about 5 minutes. Wipe the surface clean and apply another film of cooking oil. Wipe the surface clean again. The broiler is now ready for use. The oil may tend to smoke this is normal.
- 7. Approximate grilling temperatures range from 350° F (with no product on the grill) on low setting to 570° F on high.

# **CLEANING**

- Clean with a clean soft cloth daily. Any discoloration can be removed with a non-abrasive cleaner.
- 2. Remove the water pan and cooking grates. Wash them in a sink.
- 3. To clean heating element, first remove the grates. Swing the element housing to a vertical position and lock it in place with the support located in the center. Clean the elements with a stiff wire brush or equivalent.
- 4. Heat baffles are located directly below the heating elements and are removable for cleaning in a sink.

#### LIMITED EQUIPMENT WARRANTY

Star Manufacturing [as well as its subsidiaries] warrants to the original purchaser of new Star products to be free from defects in material or workmanship, under normal and proper use and maintenance service as specified by Star and upon proper installation and start-up in accordance with the instructions supplied with each Star unit. Star's obligation under this warranty is limited to a period of one [1] year from the date of original installation, or eighteen [18] months from original invoice date, whichever occurs first. Defects that occur as a result of normal use, within the time period and limitations defined in this warranty, will at Star's discretion have the parts replaced or repaired by Star or a Star-authorized service agency.

#### THIS WARRANTY IS SUBJECT TO ALL LISTED CONDITIONS

Repairs performed under this warranty are to be performed by a Star authorized service agency. Star will not be responsible for charges incurred or service performed by non-authorized repair agencies. In all cases, the nearest Star-authorized service agency must be used. Star will be responsible for normal labor charges incurred in the repair or replacement of a warrantied product within 50 miles (80.5 km) of an authorized service agency. Time and expense charges for anything beyond that distance will be the responsibility of the owner. All labor will need to be performed during regular service hours. Any overtime premium will be charged to the owner. For all shipments outside the U.S.A. and Canada, please see the International Warranty for specific details. It is the responsibility of the owner to inspect and report any shipping damage claims, hidden or otherwise, promptly following delivery. No mileage or travel charges will be honored on any equipment that is deemed portable. In general, equipment with a cord and plug weighing less than 50 lb. (22.7 kg) is considered portable and should be taken or shipped to the closest authorized service agency, transportation prepaid.

#### CONTACT

Should you require any assistance regarding the operation or maintenance of any Star Manufacturing; phone, email or fax our service department. In all correspondence provide the model number and serial number of the unit needing service; include the voltage or gas type.

Normal Business Hours: 8:00 a.m. to 4:30 p.m. Central Telephone: 800-264-7827 Tech Service Option 2

 $\textbf{Email:}~\underline{\textbf{TechService@partstown.com}}$ 

www.Star-Mfg.com

#### WARRANTY EXCLUSIONS

#### THE FOLLOWING WILL NOT BE COVERED UNDER WARRANTY.

Star's sole obligation under this warranty is limited to either repair or replacement parts, subject to the additional limitations detailed below. This warranty neither assumes nor authorizes any person to assume obligations other than those expressly covered by this warranty.

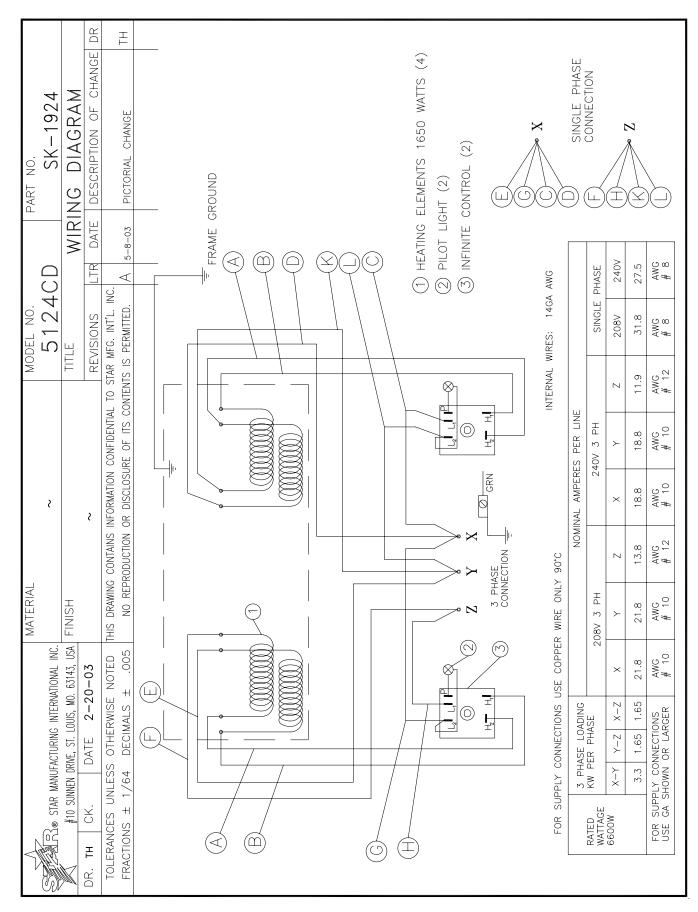
- Any product which has not been used, maintained, or installed in
  accordance with the directions published in the appropriate installation sheet
  and/or owner's manual, including incorrect gas or electrical connection. Star
  is not liable for any unit which has been mishandled, abused, misapplied,
  subjected to harsh chemicals, modified by unauthorized personnel, damaged
  by flood, fire, or other acts of nature [or God], or which have an altered or
  missing serial number.
- Installation, labor, and job checkouts, calibration of heat controls, air and gas burner/bypass/pilot adjustments, gas or electrical system checks, voltage and phase conversions, cleaning of equipment, or seasoning of griddle surface
- Replacement of fuses or resetting of circuit breakers, safety controls, or reset buttons.
- Replacement of broken or damaged glass components, quartz heating elements, and light bulbs.
- Labor charges for all removable and consumable parts in gas charbroilers and hotplates, including but not limited to burners, grates, and radiants.
- Any labor charges incurred by delays, waiting time, or operating restrictions that hinder a service technician's ability to perform service.
- Replacement of parts that fail or are damaged due to normal wear or labor for replacement of parts that can be replaced during a daily cleaning routine, such as but not limited to silicone belts, PTFE non-stick sheets, control labels, knobs, bulbs, fuses, quartz heating elements, baskets, racks, and grease drawers.
- Any economic loss of business or profits.
- Non-OEM parts. Use of non-OEM parts without Star's approval will void the warranty.
- Units exceeding one [1] year from original installation date, or more than eighteen [18] months from original purchase date, whichever comes first.

#### ADDITIONAL WARRANTIES

• Specific/chain-specific equipment may have additional and/or extended warranties

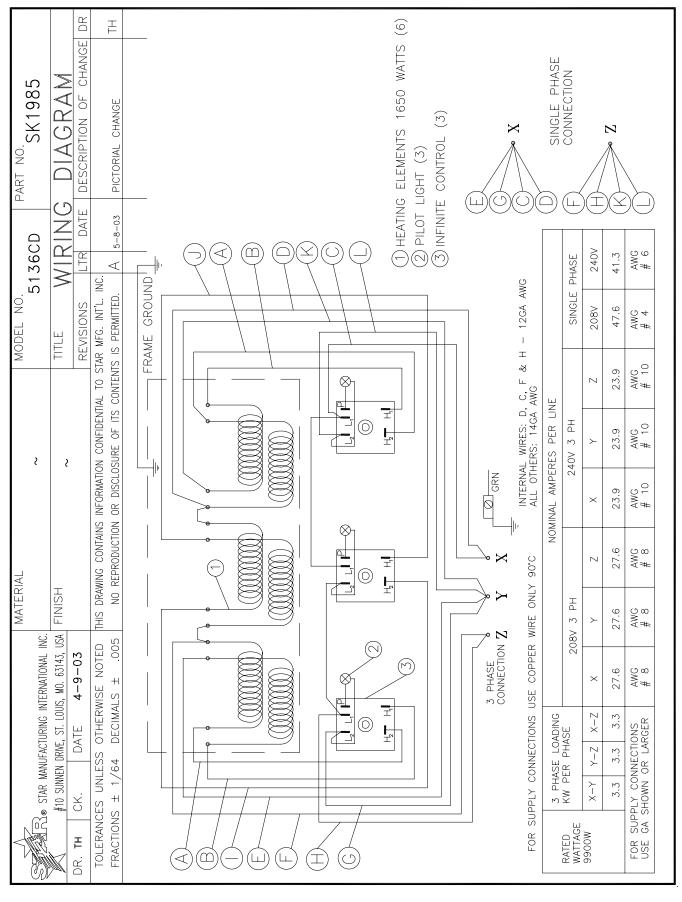
PRODUCTS	PARTS	LABOR
Star Ultra Max ® fryers, griddles, charbroilers and hotplates	2 years	2 years
Star Max ® fryers, griddles, charbroilers and hotplates	2 years	2 years
Staltek™ roller grill coatings	5 years	
Cast iron grates, burners and burner shields	1 year	
Original Star, Toastmaster or Holman parts sold to repair equipment	90 days	

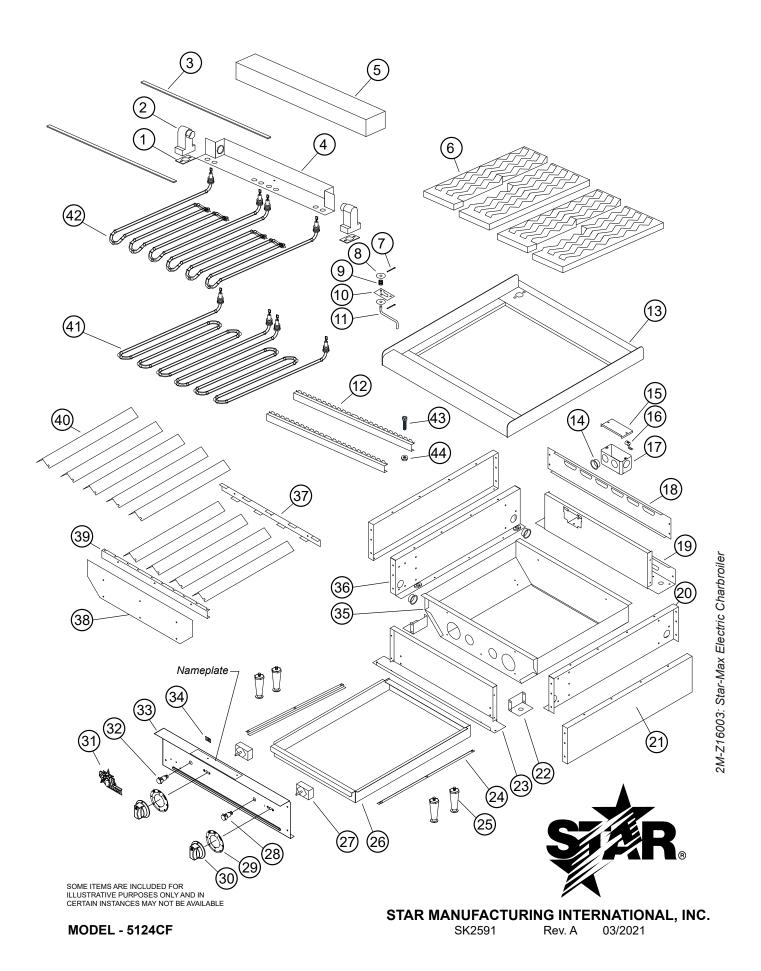
The foregoing warranty is in lieu of any, and all other warranties expressed or implied and constitutes the entire warranty.



2M-Z16003: Star-Max Electric Charbroller

2M-Z16003: Star-Max Electric Charbroiler





	Model;	5124CF &	5136CF Electric Counter Char-E	Broiler		
Fig No	Part No	Qty	Description	Application		
1	21-7370	2	GASKET			
2	2F-Z6858	2	SUPPORT WITH BUSHING			
· '	H1-Y3115	2	ELEMENT STDAD	5124CF		
	H1-Y3266		ELEMENT STRAP	5136CF		
	H1-Z6115	4	EL EMENIT LIQUOINIC	5124CF		
4	H1-Z6116	1	ELEMENT HOUSING	5136CF		
	H1-Z6117		ELEMENT HOUGHO COVER	5124CF		
5	H1-Z6118	1 1	ELEMENT HOUSING COVER	5136CF		
	05 1/0407	4	TOP OPATE	5124CF		
6	2F-Y3107	6	TOP GRATE	5136CF		
7	2A-5401	2	COTTER PIN			
8	2C-1811	2	WASHER			
9	2P-7969	1	SPRING			
10	H1-Z6122	1	PROP ROD BRACKET			
11	2A-Z6121	1	PROP ROD			
40	H1-Z6119		H1-Z6119	_	EL EMENT OLAMAD	5124CF
12	H1-Z6120	2	ELEMENT CLAMP	5136CF		
40	H1-512400	1	TOD ACCEMBLY	5124CF		
13	H1-513600	1 1	TOP ASSEMBLY	5136CF		
4.4	01/ 70400	3	BUSHING	5124CF		
14	2K-Z6183	5		5136CF		
15	G3-Y7788	1	BOX COVER			
16	2C-Y2344	1	GROUND LUG			
17	2E-Y7327	1	ELECTRICAL BOX			
L	H1-Z6054		1 REAR PANEL	5124CF		
18	H1-Z6056	7		5136CF		
40	9 H1-Z6059 1	DEAD ENGLOSUDE	5124CF			
19		7	REAR ENCLOSURE	5136CF		
20	G3-624303	1	SIDE LINER ASSEMBLY RIGHT			
21	G3-Z5945	2	SIDE PANEL			
22	H1-Z6123	2	FOOT SUPPORT			
00	H1-Z6045 H1-Z6046	/3	23	H1-Z6045	EDON'T LIQUISING	5124CF
23				1 1	FRONT HOUSING	5136CF
24	G3-Z6036	2	DRAWER SLIDE			
25	2A-Z5942	4	FOOT			
26	H3-Z6482 H3-Z6483	6	1	GREASE DRAWER	5124CF	
					5136CF	
27	2J-6403	2/3	INFINITE CONTROL	5124CF / 5136CF		
29	2M-Z15452	2/3	LABEL ELECT INF LG	5124CF / 5136CF		
30	G3-624330	2/3	KNOB ASSY LG E-F KEYT	5124CF / 5136CF		
31	2M-Z15804	1	STAR-MAX LOGO	ALL		
32	2J-Y6690	2/3	PILOT LIGHT	5124CF / 5136CF		
22	G3-Z5911	4		5124CF		
33	G3-Z5921	G3-Z5921	1 1	FRONT PANEL	5136CF	

IMPORTANT: WHEN ORDERING, SPECIFY VOLTAGE OR TYPE GAS DESIRED INCLUDE MODEL AND SERIAL NUMBER

PAGE \_\_\_1 OF \_\_2

Some items are included for illustrative purposes only and in certain instances may not be available.



,	
2	Ļ
Ç	3
,	=
3	Ξ
۶	Ţ
7	7
•	_
.9	4
4	Ξ
9	-
2	Ę
Ц	L
>	
(	C
2	S
	X T
Ç	Ī
ò	r
Ξ,	
ç	۲,
ς	2
ς	=
7	Ĭ
211 716002.	
	į
2	2
C	\

Model; 5124CF & 5136CF Electric Counter Char-Broiler						
Fig No	Part No	Qty	Description	Application		
34	2C-8477	3	TINNERMAN CLIPS	ALL		
35	H3-612400	1	LINER ASSEMBLY	5124CF		
	H3-613600			5136CF		
36	G3-624302	1	SIDE LINER ASSEMBLY LEFT			
37	H1-Z6173	1		5124CF		
3/	H1-Z6085		BAFFLE FRAME REAR	5136CF		
38	H1-Z6082	1	LINED COVED	5124CF		
30	H1-Z6083		LINER COVER	5136CF		
39	H1-Z6084	1	BAFFLE FRAME FRONT	5124CF		
39	H1-Z6533			5136CF		
40	H1-Z6086	9	BAFFLE	5124CF		
	H1-Z6086	15	DAFFLE	5136CF		
41	2N-Y3085	2/3	HEATING ELEMENT 240V	5124CF / 5136CF		
	2N-Y3086	2/3	HEATING ELEMENT 208V	5124CF / 5136CF		
42	2N-Y3083	2/3	HEATING ELEMENT BENT 240V	5124CF / 5136CF		
	2N-Y3084	2/3	HEATING ELEMENT BENT 208V	5124CF / 5136CF		
43	2C-9704	12	#10-24 HEX HEAD NUT 1" LONG	5124CF / 5136CF		
44	2C-08-07-0207	12	#10-24 HEX NUT W/ LOCK WASHER	5124CF / 5136CF		
NA	2E-Z6113	1	WIRE KIT, 24" ELEC CHAR	5124CF		
NA 2E-Z6114		'	WIRE KIT, 36" ELEC CHAR	5136CF		

IMPORTANT: WHEN ORDERING, SPECIFY VOLTAGE OR TYPE GAS DESIRED INCLUDE MODEL AND SERIAL NUMBER

PAGE 2 2 2

Some items are included for illustrative purposes only and in certain instances may not be available.



Star - Holman - Lang - Wells - Toastmaster 265 HOBSON ST. SMITHVILLE, TN 37166 (800) 264-7827 www.star-mfg.com