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**SERVICE MANUAL**  
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# TG - ROTISSERIE OVEN MODELS

## MODELS

### Manual controls

**TG50 H**  
**TG110 H**  
**TG330 H**  
**TG550 H**



**Model TG330 H**

### - NOTICE -

This manual is prepared for the use of trained Service Technicians and should not be used by those not properly qualified. If you have attended a training for this product, you may be qualified to perform all the procedures in this manual.

This manual is not intended to be all encompassing. If you have not attended a training for this product, you should read, in its entirety, the repair procedure you wish to perform to determine if you have the necessary tools, instruments and skills required to perform the procedure. Procedures for which you do not have the necessary tools, instruments and skills should be performed by a trained technician.

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|                                                                                |           |
|--------------------------------------------------------------------------------|-----------|
| <b>Index .....</b>                                                             | <b>3</b>  |
| <b>General technical data .....</b>                                            | <b>4</b>  |
| Technical Data .....                                                           | 4         |
| <b>Removal and replacement of parts for the TG50/TG110/TG330/TG550 H .....</b> | <b>5</b>  |
| Right or left side panel TG330/550 .....                                       | 5         |
| Right side Panel TG110 .....                                                   | 5         |
| Right or left side panel TG50 .....                                            | 5         |
| Top cover TG330/550 .....                                                      | 6         |
| Top cover TG110 .....                                                          | 6         |
| Top cover TG50 .....                                                           | 6         |
| Left side panel TG110 .....                                                    | 7         |
| Knob .....                                                                     | 7         |
| Control panel TG330/550 .....                                                  | 7         |
| Control panel TG110 .....                                                      | 8         |
| Control panel TG50 .....                                                       | 8         |
| Electric panel TG330/550 .....                                                 | 9         |
| Electric panel TG110 .....                                                     | 9         |
| Quartz lamp .....                                                              | 9         |
| High limit thermostat .....                                                    | 10        |
| Thermostat TG330/550 .....                                                     | 10        |
| Thermostat TG110 .....                                                         | 11        |
| Thermostat TG50 .....                                                          | 11        |
| Timer or main switch .....                                                     | 11        |
| Timer TG50 .....                                                               | 12        |
| Contactor .....                                                                | 12        |
| Blower motor .....                                                             | 12        |
| Blower motor bottom rotisserie (TG550 only) .....                              | 13        |
| Blower motor TG50 .....                                                        | 13        |
| Heating element TG110/330/550 .....                                            | 14        |
| Heating element TG50 .....                                                     | 14        |
| Drive motor TG330/550 .....                                                    | 15        |
| Drive motor TG110 .....                                                        | 15        |
| Drive motor TG50 .....                                                         | 16        |
| Door adjustment TG330/550 .....                                                | 16        |
| Door adjustment TG110 .....                                                    | 17        |
| Door glass .....                                                               | 17        |
| Changing handle of door .....                                                  | 17        |
| Changing door TG330/550 .....                                                  | 18        |
| Changing door TG110 .....                                                      | 18        |
| Changing door TG50 .....                                                       | 18        |
| Reversal of grill door TG330/550 .....                                         | 19        |
| Reversal of grill door TG110 .....                                             | 19        |
| Reversal of grill door TG50 .....                                              | 20        |
| Changing neoprene ring of the drain plug .....                                 | 20        |
| Changing complete drain plug .....                                             | 21        |
| Changing castor (TG550 only) .....                                             | 21        |
| Adjusting chain tension TG50 (motor side) .....                                | 22        |
| Replacing toothed wheel TG50 (general) .....                                   | 22        |
| Adjusting/Aligning rotor discs TG50 .....                                      | 23        |
| Drive head TG50 .....                                                          | 23        |
| <b>Electrical tests .....</b>                                                  | <b>24</b> |
| Heating element test .....                                                     | 24        |
| Control location .....                                                         | 24        |
| Changing Quartz light functions .....                                          | 25        |
| <b>Troubleshooting the TG110/330/550 H Rotisserie .....</b>                    | <b>26</b> |
| <b>Troubleshooting the TG50 H Rotisserie .....</b>                             | <b>26</b> |
| <b>Servicing and repairing .....</b>                                           | <b>27</b> |
| TG 110 - 330 and 550 H .....                                                   | 27        |
| TG 50 H .....                                                                  | 31        |
| <b>Exploded views &amp; Partlists .....</b>                                    | <b>35</b> |
| <b>Electrical diagrams .....</b>                                               | <b>48</b> |

## GENERAL TECHNICAL DATA

This manual covers the TG series rotisserie ovens 50-110-330-550 H. These are manual controlled ovens.

- TG 50 H – Oven with three spits ( 9 chickens ).
- TG 110 H – Oven with four spits ( 16 chickens ).
- TG 330 H – Oven with seven spits ( 28 to 35 chickens ).
- TG 550 H – Double oven with both seven spits ( 56 to 70 chickens ).

All of the information, illustrations and specifications contained in this manual are based on the latest product information available at the time of printing.

## TECHNICAL DATA

| Type                                                                                      | TG 50                                             | TG 110  | TG 330  | TG 550  |
|-------------------------------------------------------------------------------------------|---------------------------------------------------|---------|---------|---------|
| Power (W)                                                                                 | 3100                                              | 5200    | 9500    | 19000   |
| Fuses needed with power connection<br>400 V, 3N ~50...60 Hz (3 phases with zero)          |                                                   | 3x 16 A | 3x 16 A | 3x 32 A |
| Fuses needed with power connection<br>200 or 230 V, 3 ~50...60 Hz (3 phases without zero) |                                                   | 3x 16 A | 3x 32 A | 3x 63 A |
| Fuses needed with power connection<br>230 V, 1N ~50...60 Hz (1 phase with zero)           | 1 x 16A                                           | 1x 32A  | 1x 63A  | -       |
| Standard plug from factory CEE-form 5-pole                                                | -                                                 | 16A     | 16 A    | 32A     |
| Standard plug from factory single pole                                                    | 16A                                               | -       | -       | -       |
| Power connection                                                                          | 400/230 V, 3N ~50...60 Hz or 230 V, 1N ~50...60Hz |         |         |         |
| Net weight (kg)                                                                           | 53                                                | 75      | 153     | 303     |
| Gross weight (kg)                                                                         | 64                                                | 87      | 179     | 336     |
| Height (mm)                                                                               | 690                                               | 750     | 1070    | 2055    |
| Width (mm)                                                                                | 570                                               | 825     | 985     | 985     |
| Depth (mm)                                                                                | 504                                               | 500     | 800     | 800     |

## Tools

- Standard set of tools.
- Metric wrenches, sockets and hex socket key wrenches.
- Insulation value tester (Megger)
- Multi-meter and AC current clamp meter.
- Temperature tester.

## REMOVAL AND REPLACEMENT OF PARTS FOR THE TG50/TG110/TG330/TG550 H

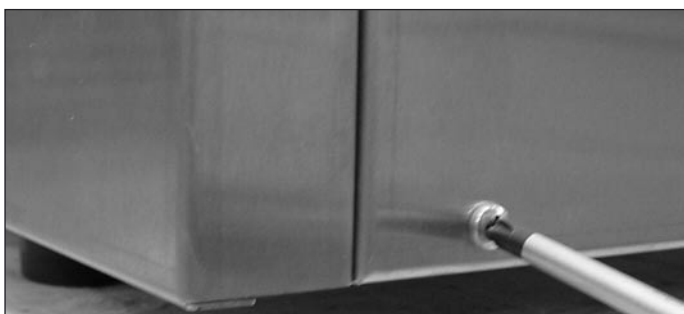
**WARNING:** Disconnect the electrical power to the machine at the main circuit box. Place a tag on the circuit box indicating the circuit is being serviced.

## RIGHT OR LEFT SIDE PANEL TG330/550



1. Remove the screws that secure the panel to the frame.
2. Remove the panel.
3. Reverse the procedure to install.

## RIGHT SIDE PANEL TG110



1. Remove the screws that secure the panel to the frame.
2. Remove the panel.
3. Reverse the procedure to install.

## RIGHT OR LEFT SIDE PANEL TG50



1. Remove the screws on top and front side (behind the drawer) that secure the panel to the frame.
2. Remove the panel. Panel is hooked on back panel with socket-head screw.
3. Reverse the procedure to install.

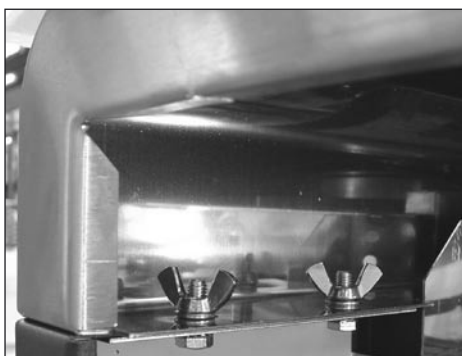
# Зип Общепит

## TOP COVER TG330/550



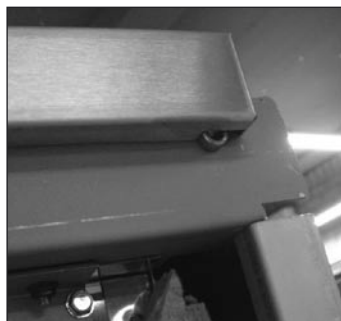
1. Remove the right side panel according prior procedure.
2. Remove the bolts and nuts on the inside of the top cover.
3. Remove the screws on the top cover and remove the cover.
4. Reverse the procedure to install.

## TOP COVER TG110



1. Remove the right side panel according prior procedure.
2. Remove the 4 wing nuts and bolts on the inside of the top cover.
3. Lift the top cover, slide it to the left and remove the cover.
4. Reverse the procedure to install.

## TOP COVER TG50



1. Remove the right and left side panel according prior procedure.
2. Remove the nuts on the inside of the top cover.
3. Lift the top cover, while supporting the door, over the hinge pin and remove the door.
4. Pull top cover towards yourself, lift this out of the fixation with the socket-head screws and remove the cover.
5. Reverse the procedure to install.



**Note:** Between the lower hinge pin and bearing lies a washer.

## LEFT SIDE PANEL TG110



1. Remove the right side panel and the top cover according prior procedures.
2. Remove the wing nuts at the top of the left side panel.
3. Allow the panel to slide down and remove it from the unit.
4. Reverse the procedure to install.

## KNOB



1. Remove cover plate on the knob with a small screw driver.
2. Loosen the screw inside the knob.
3. Remove the knob with ring.
4. Reverse the procedure to install.

**Note:** check that the ring behind the knob is in the right position and runs free from the panel.

## CONTROL PANEL TG330/550



1. Remove the right side panel according prior procedure.
2. Remove the knobs according prior procedure.
3. Remove the screws that secure the panel.
4. Loosen the wing nut from the cover box on the electric panel and remove the box.
5. Remove the bolts and nuts on the backside that secure the panel and remove the panel.
6. Reverse the procedure to install.



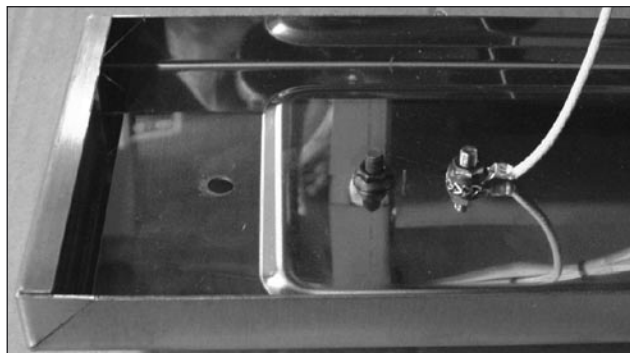
Зип Общепит

## CONTROL PANEL TG110



1. Remove the right side panel according prior procedures.
2. Remove the knobs according prior procedures.
3. Remove the screws that secure the panel.
4. Remove the wing nuts and bolts on the back-side that secure the panel and remove the panel.
5. Reverse the procedure to install.

## CONTROL PANEL TG50



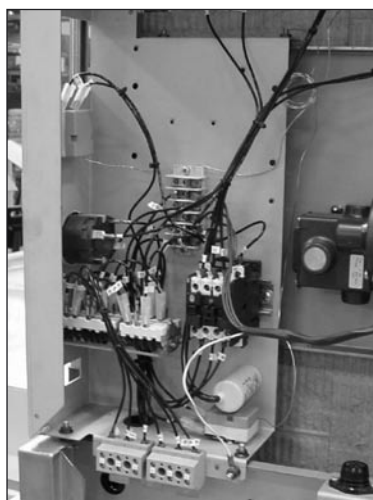
1. Remove the fat drawer.
2. Remove the knobs according prior procedure.
3. Remove the screws that secure the front panel and remove the front panel.
4. Remove the 4 screws on the front side and the nut on the back side and remove the panel.
5. Reverse the procedure to install.

## ELECTRIC PANEL TG330/550



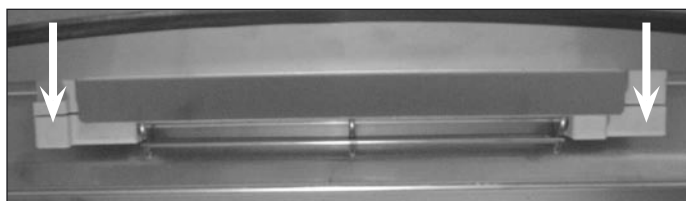
1. Remove the knobs according prior procedure.
2. Remove the screws on the front side that secure the panel.
3. Remove the cover box on the electric panel according prior procedure.
4. Disconnect all necessary wiring.
5. Remove the wing nuts that secure the electric panel and slide panel to the right to remove the panel.
6. Reverse the procedure to install.

## ELECTRIC PANEL TG110



1. Remove the control panel according prior procedure.
2. Disconnect all necessary wiring.
3. Remove the nuts that secure the electric panel and remove the panel.
4. Reverse the procedure to install.

## QUARTZ LAMP



TG330/550



TG110

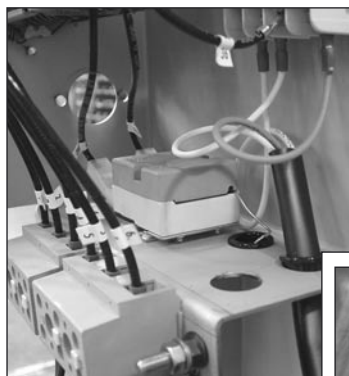
1. Remove the insulators of the lamp.
2. Remove the bolt from each end of the lamp and remove the lamp.
3. Install the lamp with the painted side towards the top of the oven. Hold the metal ends when tightening the bolts to prevent the metal from twisting and damaging the lamp.
4. Tighten the insulators evenly to prevent damage.

**Caution:** Do not touch the glass with your hands. The moisture from your hands could affect the live span of the lamp. This moisture can be removed with alcohol while the lamp is cold.

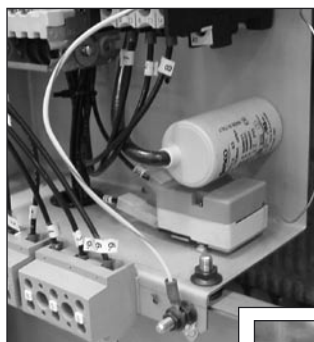
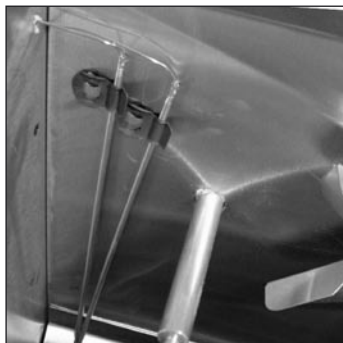
**Note:** Use a clean rag or paper towel to replace the lamp.

# Зип Общепит

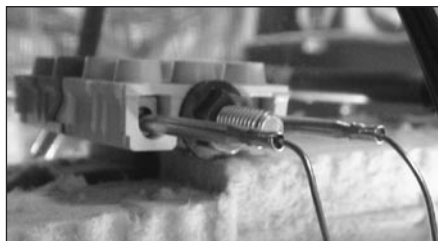
## HIGH LIMIT THERMOSTAT



TG330/550



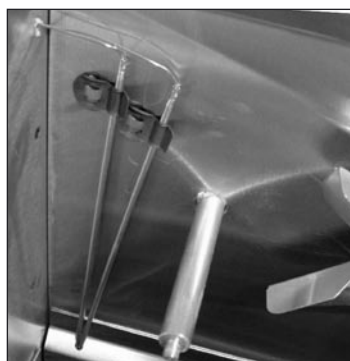
TG110



1. Remove the right side panel according prior procedure.
2. (TG 330-550 only) Remove the suction and fan plate on the inside of the oven.
3. (TG 110 only) Remove the nut on the clamp and slide clamp towards yourself. Loosen the screw in the clamp that secures the probe and remove the probe.
4. (TG 330-550 only) Remove the thermostat-probe from the clip in the oven and guide it outside through the opening in the side wall.
5. Remove the screws on the electric panel that secure the thermostat.
6. Remove the thermostat and disconnect the wiring.
7. Reverse the procedure to install.

**Note:** Set the new high limit thermostat to its maximum position.

## THERMOSTAT TG330/550



1. Remove the control panel cover and the suction and fan plate according prior procedures.
2. Remove the thermostat-probe from the clip in the oven and guide it outside through the opening in the side wall.
3. Remove the screws on the electric panel that secure the thermostat.
4. Remove the thermostat and disconnect the wiring.
5. Reverse the procedure to install.

# Зип Общепит

## THERMOSTAT TG110



1. Remove the control panel according prior procedure.
2. Remove the nut on the clamp and slide clamp towards yourself. Loosen the screw in the clamp that secures the probe and remove the probe.
3. Remove the screws on the electric panel that secure the thermostat.
4. Remove the thermostat and disconnect the wiring.
5. Reverse the procedure to install.

## THERMOSTAT TG50



1. Remove the front panel and the left side panel according prior procedures.
2. Remove the cap nuts that secure the fan plate and remove this plate.
3. Remove the thermostat-probe from the clip in the oven and guide it outside through the opening in the side wall.
4. Remove the screws on the control panel that secure the thermostat.
5. Remove the thermostat and disconnect the wiring.
6. Reverse the procedure to install.

## TIMER OR MAIN SWITCH



1. Remove the control panel according prior procedure.
2. Remove the screws on the electric panel that secure the switch.
3. Remove the switch and disconnect the wiring.
4. Reverse the procedure to install.

## Зип Общепит

## TIMER TG50

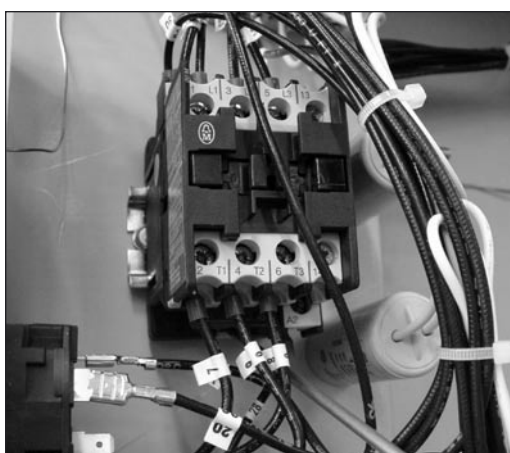
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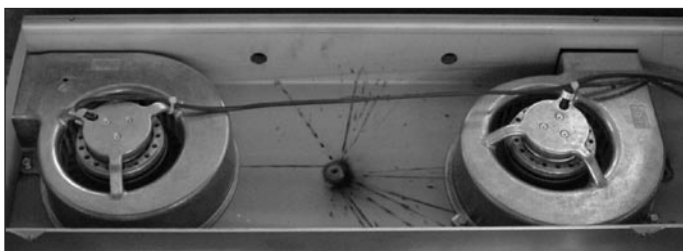
1. Remove the control panel according prior procedure.
2. Remove the screws on the electric panel that secure the timer.
3. Remove the timer and disconnect the wiring.
4. Reverse the procedure to install.

## CONTACTOR



1. Remove the right side panel according prior procedure.
2. Disconnect the lead wires to the switch.
3. Push down on the locking tab and lift out and then up to remove it from the mounting bracket.
4. Reverse the procedure to install.

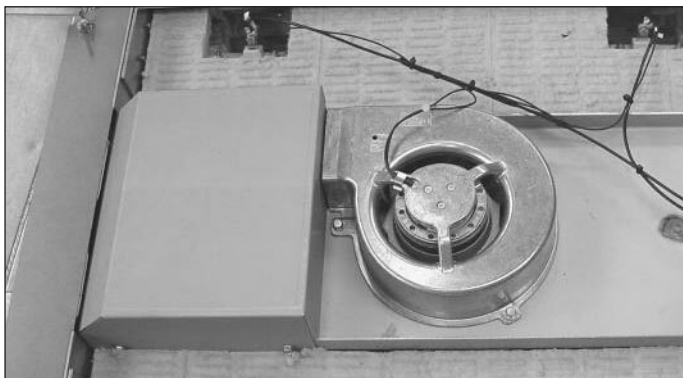
## BLOWER MOTOR



TG330/550

1. Remove the right side panel and the top cover according prior procedures.
2. Remove the rotor discs, suction and fan plate in the oven.
3. Remove the wing nut on the fan blade and remove fan blade. (Left handed threads).
4. Disconnect wiring of the motor.
5. Remove the screws that secure the motor and remove the motor.
6. Reverse the procedure to install.

**Note:** The blowers of TG 330-550 are equipped with a capacitor. Check the direction of rotation of the motor (clockwise) and change the wiring if necessary.

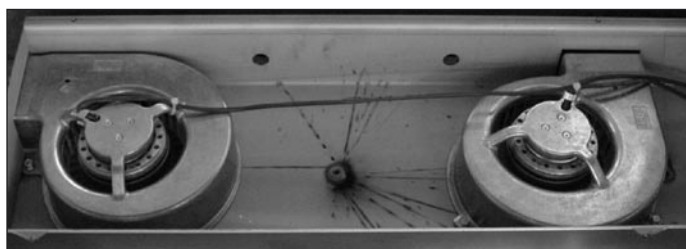


TG110

## BLOWER MOTOR BOTTOM ROTISSERIE (TG550 ONLY)

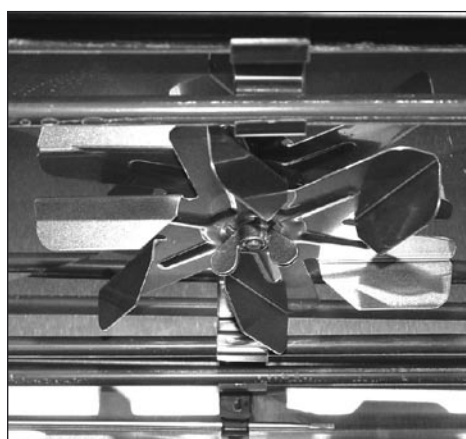


1. Remove the right side panel according prior procedures.
2. Remove the rotor discs, suction and fan plate in the bottom oven.
3. Remove the wing nut on the fan blade and remove fan blade. (Left handed threads!)
4. Remove fat drawer from upper oven.
5. Remove the drip trays from the upper oven.
6. Remove the 4 screws that secure the intermediate plate above the blowers and slide this plate off to the service side.
7. Disconnect wiring of the motor.
8. Remove the screws that secure the motor and remove the motor.
9. Reverse the procedure to install.



**Note:** The blowers are equipped with a capacitor. Check the direction of rotation of the motor (clockwise) and change the wiring if necessary.

## BLOWER MOTOR TG50



1. Remove the right and left side panel and the top cover according prior procedures.
2. Remove the fan plate in the oven.
3. Remove the wing nut on the fan blade and remove fan blade. (Left handed threads).
4. Disconnect wiring of the motor.
5. Remove the screws that secure the motor and remove the motor.
6. Reverse the procedure to install.



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## HEATING ELEMENT TG110/330/550

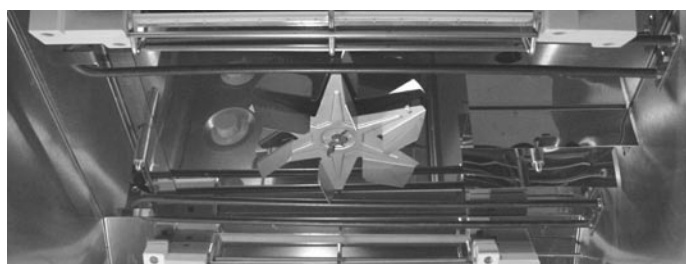
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TG330/550

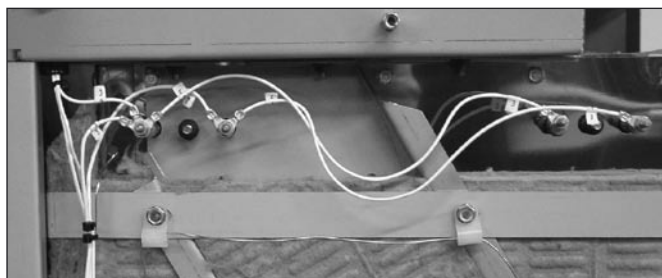


TG110



1. Remove the rotor discs, right side panel, suction and fan plate according prior procedures.
2. Disconnect the wiring from the element.
3. Remove the mounting nut.
4. Remove the element from the mounting clip and pull it from the wall.
5. Reverse the procedure to install.

## HEATING ELEMENT TG50



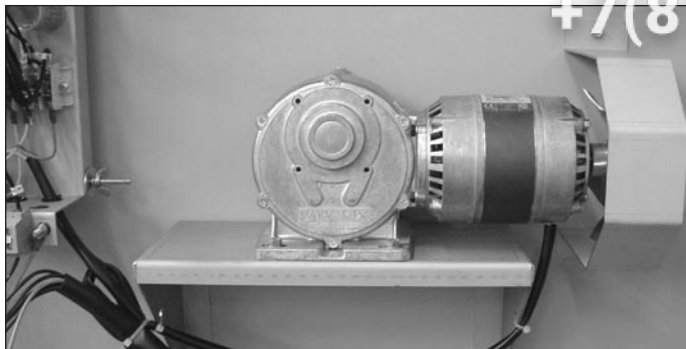
1. Remove the left side panel and fan plate according prior procedures.
2. Disconnect the wiring from the element.
3. Remove the mounting nut.
4. Remove the element from the mounting clip and pull it from the wall.
5. Reverse the procedure to install.

## Зип Общепит

### DRIVE MOTOR TG330/550

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1. Remove the right side panel and rotor discs according prior procedures.
2. Disconnect the wiring of the motor. Check where the wire, marked A is connected.
3. Remove the screws that secure the fan cover and remove the cover.
4. Set the drive arm in horizontal position towards the service side. You can do this by manual operation or by turning the fan blade by hand.
5. Mark the position of the motor support with a marker.
6. Remove the bolts that secure the motor and the nuts that secure the motor support and remove the motor.
7. Check the white Teflon ring. Replace if necessary.
8. Install the fan blade on the new motor.
9. Reverse the procedure to install.

**Note:** Always make a test run on maximum temperature to insure the motor is well mounted and adjusted.

### DRIVE MOTOR TG110



1. Remove the right side panel and rotor discs according prior procedures.
2. Disconnect the wiring of the motor.
3. Remove the bolts that secure the motor and remove the motor.
4. Check the white Teflon ring. Replace if necessary.
5. Reverse the procedure to install.

**Note:** Always make a test run on maximum temperature to insure the motor is well mounted and adjusted.

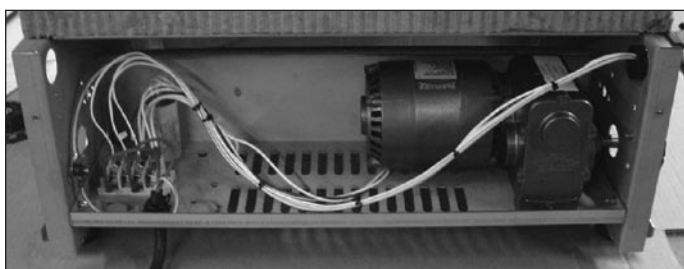
## Зип Общепит

### DRIVE MOTOR TG50



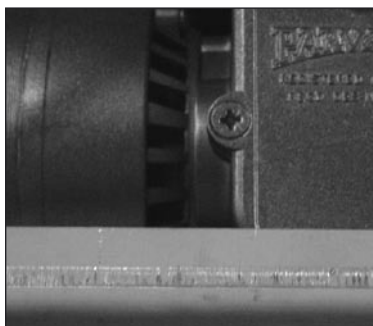
1. Remove the left side panel according prior procedure.
2. Remove the screws that hold the back panel and remove this panel.
3. Remove the 4 screws on the bottom side that secure the motor.

**Note:** If necessary release the tension on the chain.



5. Measure how far the toothed wheel is mounted on the motor shaft.
6. Loosen the socket-head bolt that secures the toothed wheel and remove this wheel.
7. Remove the key from the motor shaft.
8. Disconnect the wiring of the motor and remove the motor. Check where the wire, marked A, is connected.
9. Reverse the procedure to install.

**Note:** Always make a test run on maximum temperature to insure the motor is well mounted and adjusted.



### DOOR ADJUSTMENT TG330/550



1. Open the door and loosen the bolts on top side that secure the hinge plate.
2. Adjust the hinge and tighten the bolts.

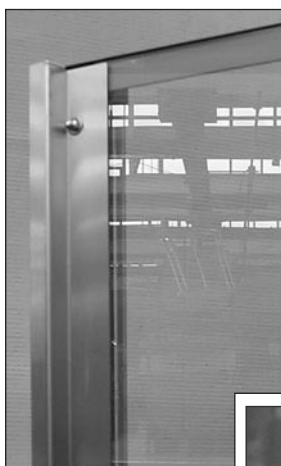
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### DOOR ADJUSTMENT TG110



1. Remove the left side panel according prior procedure.
- 2a. Loosen the 2 bolts on the hinge to adjust the door in horizontal way.
- 2b. Loosen the 4 bolts on the reinforcement plate to adjust the door in the depth.
3. Reverse the procedure to install.

## DOOR GLASS



1. Remove the retaining strip from the handle edge while supporting the glass.
3. Loosen the nuts of the retaining strip on the hinge side of the door and remove the glass.
4. Install the glass with the painted strips to the outside of the unit due to the reflective coating on the inside of the glass.
5. Install the retaining strip on the handle side of the door and tighten the nuts.
6. Adjust door if necessary as described under "door adjustment".

## CHANGING HANDLE OF DOOR



1. Secure the window by means of adhesive tape.
2. Remove the retaining strip from the handle edge.
3. Remove the screw that secures the holder for the handle on the bottom side and remove the holder and handle.
4. Reverse the procedure to install.

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## CHANGING DOOR TG330/550

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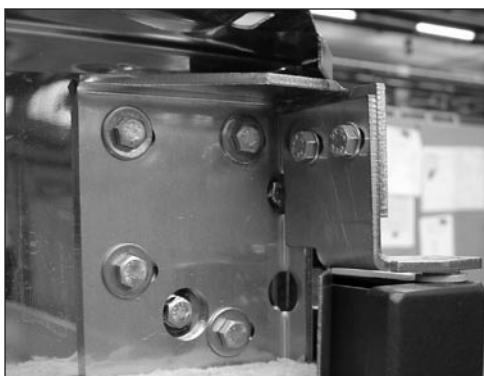
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1. Open the door and remove the bolts that secure the hinge plate, while supporting the door, and remove the plate.
2. Lift the door to remove the lower hinge pin from the bearing.
3. Reverse the procedure to install.

**Note:** Between the lower hinge pin and bearing lies a washer.

## CHANGING DOOR TG110



1. Remove the left side panel according prior procedure.
2. Remove the 2 bolts that secure the hinge, while supporting the door.
3. Open and lift the door to remove the lower hinge pin from the bearing.
4. Reverse the procedure to install.

**Note:** Replace top bearing to new door. Between the lower hinge pin and bearing lies a washer.

## CHANGING DOOR TG50



1. Remove the left and right side panel and the top cover with door according prior procedures.
2. Place new door and reverse the procedure to install.

**Note:** Between the lower hinge pin and bearing lies a washer.

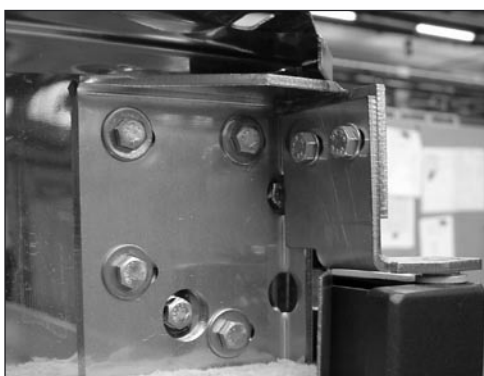


## REVERSAL OF GRILL DOOR TG330/550



1. Follow procedure of "changing door" point 1 and 2.
2. Drill a hole of 10 mm in the pilot hole on the handle side of the frame and replace the bearing (part nr.0602072).
3. Replace the bearing (part nr. 0602072) in the hinge plate to the other side of the hinge.
4. Place the washer on the bearing.
5. Rotate the door 180° and insert the hinge pin into the washer and bearing.
6. Mount the hinge plate on the right side, adjust the door and tighten the bolts.
7. Put a plastic plug (part nr. 9087350) in the hole on the left side and tighten the 2 screws in the top.

## REVERSAL OF GRILL DOOR TG110



For this procedure you need to order the following parts:

|                    |         |
|--------------------|---------|
| 1x hinge plate     | 9041273 |
| 1x tap plate       | 9041061 |
| 2x bolt M5x12      | 0211520 |
| 2x serrated washer | 0142030 |
| 1x brass bearing   | 0602072 |
| 1x plastic plug    | 9087350 |

1. Follow procedure of "changing door" point 1 to 3.
2. Drill a hole of 10 mm in the pilot hole on the handle side of the frame and replace the bearing.
3. Mount the new hinge plate on the right side on the tap plate with 2 bolts M5x12 and serrated washers. Do not tighten this yet.
4. Place the washer on the bearing on bottom side.
5. Rotate the door 180° and insert the hinge pin in the washer and bearing.
6. Adjust the door and tighten the bolts.
7. Put a plastic plug (part nr. 9087350) in the hole on the left side.

**Note:** It is necessary to make a small opening in the top cover to allow the hinge to pass through. Leave the original hinge on its place, just remove the bearing.

## Зип Общепит

## REVERSAL OF GRILL DOOR TG50



1. Follow procedure of "changing door".
2. Drill a hole of 10 mm in the pilot hole on the handle side of the frame and replace the bearing (part nr.0602072).
3. Replace the bearing (part nr. 0602072) in the top cover to the other side.
4. Place the washer on the bearing.
5. Rotate the door 180° and insert the hinge pin into the washer and bearing.
6. Mount the top cover over the door pin and tighten the nuts.
7. Mount the left and right side panels.
8. Put a plastic plug (part nr. 9087350) in the hole on the left side.

## CHANGING NEOPRENE RING OF THE DRAIN PLUG



1. Open fat drawer and remove bolt at bottom side.

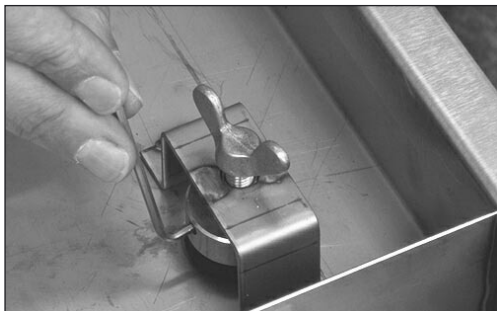
**Note:** The bolt is tightened with Loctite on the first 2 threads.

2. Unlock the drain plug by means of the wing nut and remove the ring.
3. Reverse the procedure to install.

**Note:** Before mounting the bolt put Loctite on the first 2 threads.

## Зип Общепит

### CHANGING COMPLETE DRAIN PLUG



1. Open fat drawer and loosen the plug by means of the wing nut.
2. Loosen the setscrew of the wing nut on the brass ring.
3. Remove drain plug by unscrewing the wing nut.
4. Reverse the procedure to install.

**Note:** Before mounting put Loctite on the first 2 threads of the bolt and in the brass ring.



### CHANGING CASTOR (TG550 ONLY)

1. Loosen the 4 bolts and slide the castor with mounting plate from the base frame.
- Note:** The castors on the front side are with brake and on the backside without brake.
2. Remove the bolts from the mounting plate.
  3. Reverse the procedure to install.

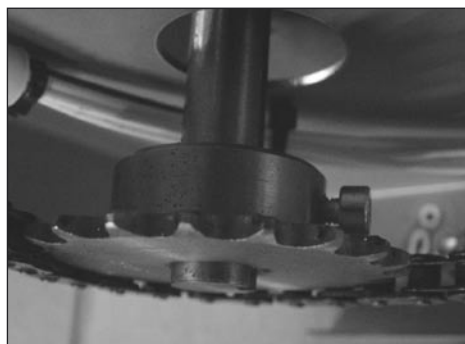
## Зип Общепит

### ADJUSTING CHAIN TENSION TG50 (MOTOR SIDE)



1. Remove the left side panel according prior procedure.
2. Loosen the 2 screws that secure the chain stretcher.
3. Adjust the chain tension with the bolt on top of the chain stretcher.
4. Secure the bolt by means of the nut.
5. Mount left side panel.
6. Make a test run.

### REPLACING TOOTHED WHEEL TG50 (GENERAL)



1. Remove the left or right side panel according prior procedure.
2. Release the chain tension with the chain stretcher.
3. Measure how far the toothed wheel is mounted on the shaft.
4. Replace the toothed wheel.

## ADJUSTING/ALIGNING ROTOR DISCS TG50



1. Remove the left side panel according prior procedure.
2. Loosen the clamp nut on the front shaft.
3. Put a spit between the rotor discs and align the discs by turning the right side disk.
4. Reverse the procedure to install.

## DRIVE HEAD TG50



1. Remove the left or right side panel according prior procedure.
2. Release the chain tension with the chain stretcher.
3. Remove the disc in the oven.
4. Measure how far the toothed wheel is mounted on the shaft.
5. If necessary, remove the insulation for easy access to the bolts of the housing.
6. Remove the nuts that secure the housing and remove the housing.
7. Loosen the socket-head bolt that secures the toothed wheel and remove the wheel.
8. Remove the clip on the shaft and remove the drive head.
9. Reverse the procedure to install.



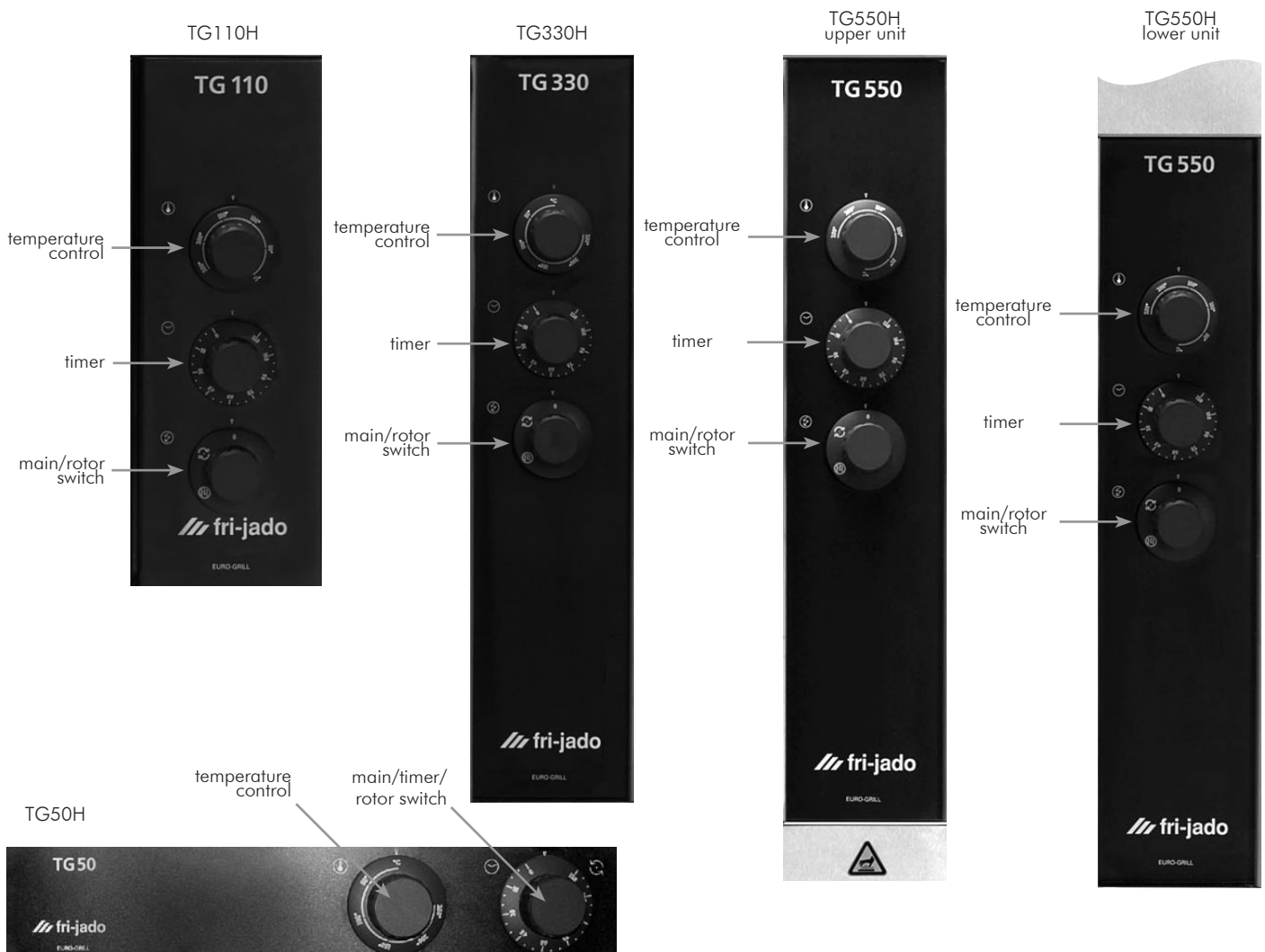
**WARNING:** Disconnect the electrical power to the machine at the main circuit box. Place a tag on the circuit box indicating the circuit is being serviced.

## HEATING ELEMENT TEST

| Type      | Wattage/Voltage | Resistance $\Omega$<br>-5% + 10% | Current A |
|-----------|-----------------|----------------------------------|-----------|
| TG50      | 1000 / 200      | 40.0                             | 5.0       |
|           | 1000 / 230      | 53.0                             | 4.3       |
| TG110     | 1500 / 208      | 29.0                             | 7.2       |
|           | 1500 / 230      | 35.5                             | 6.5       |
| TG330/550 | 2100 / 208      | 20.5                             | 10.0      |
|           | 2100 / 230      | 25.0                             | 9.1       |
| TG330/550 | 3100 / 208      | 14.0                             | 14.9      |
|           | 3100 / 230      | 17.0                             | 13.4      |

**Note:** When testing the resistance of the element remove the wiring.

## CONTROL LOCATION



## CHANGING QUARTZ LIGHT FUNCTIONS

For the standard rotisseries (with doors on both sides) the Quartz light on customer side is always on during the process and the light on service side switches on and off with the heating elements. In some cases it is desirable that the lights work the other way around. To do this you have to change the wiring of the Quartz lights. Below is described how to do this with the different rotisseries. See also the circuit and wiring diagrams.

**TG 110 H:**

Change the wires 36+M2 on the Quartz light on customer side with the wire 33 on the Quartz light on service side.

**TG 330 and 550 H 3N~400V and 1N~230V:**

Change the wire 24 on the contactor with the wire 36 on the connection block.

**TG 330 and 550 H 3~200/230V:**

Change the wire 23 on the main switch with the wire 25 on the connection block.

Change the wire 24 on the contactor with the wire 36 on the connection block.

## TROUBLESHOOTING THE TG110/330/550 H ROTISSERIE

| Symptom                                                                                                   | Possible causes                                                                                                                                                                                                                                          |
|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Main fuse or breaker blows.                                                                               | <ol style="list-style-type: none"> <li>1. Wiring incorrectly.</li> <li>2. Heating element, drive motor, blower or magnetic switch shorted.</li> <li>3. Wiring shorted.</li> </ol>                                                                        |
| Drive motor does not run.                                                                                 | <ol style="list-style-type: none"> <li>1. Main fuse on L3 inoperative.</li> <li>2. Capacitor malfunction.</li> <li>3. Motor malfunction.</li> <li>4. Main switch malfunction.</li> <li>5. Timer switch malfunction.</li> <li>6. Wiring loose.</li> </ol> |
| Blower motor does not run.                                                                                | <ol style="list-style-type: none"> <li>1. Capacitor malfunction.</li> <li>2. Wiring loose.</li> <li>3. Motor inoperative.</li> </ol>                                                                                                                     |
| Oven temperature differs from temperature setting.                                                        | <ol style="list-style-type: none"> <li>1. Incorrect line voltage.</li> <li>2. Thermostat malfunction.</li> <li>3. Blower motor(s) inoperative.</li> <li>4. Dirty fan guard or fanblade(s).</li> </ol>                                                    |
| All heating elements out, one quartz lamp and blowers operate while oven cavity is below set temperature. | <ol style="list-style-type: none"> <li>1. Thermostat malfunction (open).</li> <li>2. Contactor inoperative.</li> <li>3. Wiring loose.</li> </ol>                                                                                                         |
| Oven temperature does not reach desired temperature.                                                      | <ol style="list-style-type: none"> <li>1. Thermostat malfunction.</li> <li>2. Heater(s) inoperative.</li> <li>3. Incorrect voltage line.</li> </ol>                                                                                                      |

## TROUBLESHOOTING THE TG50 H ROTISSERIE

| Symptom                                              | Possible causes                                                                                                                                                                                                                                                |
|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Drive head does not run.                             | <ol style="list-style-type: none"> <li>1. Main fuse open.</li> <li>2. Capacitor malfunction.</li> <li>3. Motor malfunction.</li> <li>4. Timer switch malfunction.</li> <li>5. Wiring loose.</li> <li>6. Chain broken.</li> <li>7. Chainwheel loose.</li> </ol> |
| Oven temperature differs from temperature setting.   | <ol style="list-style-type: none"> <li>1. Thermostat malfunction.</li> <li>2. Blower motor inoperative.</li> <li>3. Dirty fan guard or fanblade.</li> <li>4. Thermostat probe loose.</li> </ol>                                                                |
| Oven temperature does not reach desired temperature. | <ol style="list-style-type: none"> <li>1. Thermostat malfunction.</li> <li>2. Heater(s) inoperative.</li> </ol>                                                                                                                                                |

# Зип Общепит vsezip.ru +7(812)987-08-81

## SERVICING AND REPAIRING

### TG 110 - 330 AND 550 H

This is an analytic description for servicing and repairing all major parts of the rotisseries. It consists off 4 basic steps to recognize and solve the problems. These steps are:

1. Symptoms.
2. Possible causes.
3. Solving of the problem: checking/action.
4. Replacing of parts and testing
  - a. Replacing is described in the service manual.
  - b. For testing start the rotisserie.

| Description of part | Symptoms                                                                   | Possible causes                                        | Solving: checking/action                                                                 |
|---------------------|----------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------------------------------|
| Door                | Broken glass                                                               | Slamming of door.                                      | Give instruction to operator.                                                            |
|                     |                                                                            | Fastening bolts and nuts are loose.                    | Tighten all fastenings.                                                                  |
|                     | Door adjustment                                                            | Door not well adjusted and closes against bottom side. | Adjust door on hinge and tighten the hinge plate.                                        |
| Heating element     | Rotisserie doesn't reach adjusted temperature                              | Wiring.                                                | Check the wiring.                                                                        |
|                     |                                                                            |                                                        | Check the power on the element.                                                          |
|                     | Duration of grilling time is too long                                      | Element malfunction.                                   | Check the current with AC current tester. See table on page 24.                          |
|                     |                                                                            | Wiring.                                                | Check the wiring.                                                                        |
| Thermostat          | Contactor doesn't come in after starting of program                        | Wiring.                                                | Check the wiring.                                                                        |
|                     |                                                                            | Thermostat malfunction.                                | Check if the thermostat is making contact.                                               |
|                     | Contactor switches off before reaching the adjusted temperature in program | Thermostat malfunction.                                | Check if the safety thermostat on the inside is turned fully clockwise (contact closed). |
|                     |                                                                            | Thermostat probe not in right position.                | Check the position of the thermostat probe.                                              |
| Main switch         | No power to all, or some oven controls                                     | Wiring.                                                | Check the wiring on the switch.                                                          |
|                     |                                                                            | Malfunction of the cams on the switch.                 | Check the cams.                                                                          |
|                     |                                                                            | Contacts burned.                                       | Check the contacts on the switch.                                                        |

| Description of part | Symptoms                                                                 | Possible causes           | Solving: checking/action                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------|--------------------------------------------------------------------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Timer               | No functions of oven are working                                         | Wiring.                   | Check the wiring on the switch.                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                     |                                                                          |                           | Check the power on the switch.                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                     | Grilling process is working, but doesn't stop                            | Malfunction of the timer. | Check functions after connecting a new timer.                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                     |                                                                          | Malfunction of the timer. | Check if the time is running down on timer (does it tick).<br>Check if the timer switches off after reaching the zero position.                                                                                                                                                                                                                                                                                                                               |
| Contactor           | Contactor doesn't come in                                                | Wiring.                   | Check the wiring.                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                     |                                                                          | Coil malfunction.         | Check resistance of the coil. This should be 525Ω.                                                                                                                                                                                                                                                                                                                                                                                                            |
|                     | Contactor comes in, but one or more functions from the switch don't work | Contact burned.           | Check the wiring.                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                     |                                                                          |                           | Check the power on all contacts.<br>Check the contacts of the switch.                                                                                                                                                                                                                                                                                                                                                                                         |
| Capacitor           | Drive motor or blower doesn't work                                       | Wiring.                   | Check the wiring.                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                     |                                                                          | Capacitor malfunction.    | Check function after connecting a new capacitor.                                                                                                                                                                                                                                                                                                                                                                                                              |
|                     |                                                                          |                           | Checking of capacitor:<br>Discharge capacitor with screwdriver. Set meter on MΩ and connect the pins of the meter on contacts, value runs up. Change the pins on contacts, value runs up again. This means the capacitor is OK.<br>Another test is to charge the capacitor with a Megger on 250V and first check the insulation value. Wait for a minute and discharge the capacitor with a screw driver. When it still flashes it means the capacitor is OK. |

| Description of part | Symptoms                                                             | Possible causes                                           | Solving: checking/action                                                                                                                                                                                                                     |
|---------------------|----------------------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Drive motor         | Motor doesn't run                                                    | Wiring.                                                   | Check the wiring.                                                                                                                                                                                                                            |
|                     |                                                                      |                                                           | Check the power to the motor.                                                                                                                                                                                                                |
|                     |                                                                      | Coil malfunction                                          | Check resistance of the coils. TG 330 and 550:<br>Between whiteA and white wire $\pm 234\Omega$<br>Between whiteA and brown wire $\pm 117\Omega$<br>Between white and brown wire $\pm 117\Omega$<br>TG 110: Between all wires $\pm 67\Omega$ |
|                     |                                                                      | Reduction gearbox.                                        | Check if reduction gearbox is blocked.                                                                                                                                                                                                       |
|                     | Motor runs after starting it up by hand                              | Capacitor malfunction.                                    | Check capacitor (see capacitor) or connect new capacitor.                                                                                                                                                                                    |
|                     | Motor stops during process and comes in again after a period of time | Coil overheated, thermistor switches off (105°C – 221°F). | Check position of fan blade. Air is sucked up over the motor.                                                                                                                                                                                |
|                     |                                                                      |                                                           | Check cooling circuit of motor.                                                                                                                                                                                                              |
|                     |                                                                      |                                                           | Check if rotisserie is close to another heat source.                                                                                                                                                                                         |
|                     |                                                                      |                                                           | Measure temperature motor during process.                                                                                                                                                                                                    |
|                     | Main fuse burned                                                     | Short circuit in coil to earth.                           | Check insulation value of coil with Megger on 500V. Minimum value is 0.5 M $\Omega$ .                                                                                                                                                        |

# Зип Общепит

| Description of part | Symptoms                                                                                        | Possible causes                                                                             | Solving: checking/action                                                                                                                                                        |
|---------------------|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Blower TG 330-550   | Blower doesn't run                                                                              | Wiring.                                                                                     | Check the wiring.                                                                                                                                                               |
|                     |                                                                                                 |                                                                                             | Check the power on the blower.                                                                                                                                                  |
|                     |                                                                                                 | Coil malfunction.                                                                           | Check resistance of the coils. Between blue and brown wire = $\pm 310\Omega$<br>Between blue and black wire = $\pm 320\Omega$<br>Between brown and black wire = $\pm 630\Omega$ |
|                     | Blower runs after starting it up by hand                                                        | Capacitor malfunction.                                                                      | Check capacitor (see capacitor)                                                                                                                                                 |
|                     |                                                                                                 |                                                                                             | Or connect new capacitor.                                                                                                                                                       |
|                     | Blower stops during process and comes in again after a period of time                           | Coil overheated, thermostat switches off ( $150^{\circ}\text{C}$ – $302^{\circ}\text{F}$ ). | Check cooling circuit of blower.                                                                                                                                                |
|                     |                                                                                                 |                                                                                             | Check if rotisserie is close to another heat source.                                                                                                                            |
|                     |                                                                                                 |                                                                                             | Measure temperature blower during process.                                                                                                                                      |
|                     | Temperature runs up very fast ( $180^{\circ}\text{C}$ - $355^{\circ}\text{F}$ within 5 minutes) | Blower doesn't turn and heat stays in top of cavity.                                        | Check the wiring.                                                                                                                                                               |
|                     |                                                                                                 |                                                                                             | Check the power on the blower.                                                                                                                                                  |
|                     | Main fuse burned                                                                                | Short circuit in coil to earth.                                                             | Check insulation value of coil with a Megger on 500V. Minimum value is $0.5\text{ M}\Omega$ .                                                                                   |

| Description of part | Symptoms                                                              | Possible causes                                           | Solving: checking/action                                                       |
|---------------------|-----------------------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------------------|
| Blower TG 110       | Blower doesn't run                                                    | Wiring.                                                   | Check the wiring.                                                              |
|                     |                                                                       |                                                           | Check the power on the blower.                                                 |
|                     |                                                                       | Coil malfunction.                                         | Check resistance of the coils. Between the 2 black wires = $\pm 115 \Omega$ .  |
|                     | Blower stops during process and comes in again after a period of time | Coil overheated, thermostat switches off (150°C – 302°F). | Check cooling circuit of blower.                                               |
|                     |                                                                       |                                                           | Check if rotisserie is close to another heat source.                           |
|                     |                                                                       |                                                           | Measure temperature blower during process.                                     |
|                     | Temperature runs up very fast (180°C - 355°F within 5 minutes)        | Blower doesn't turn and heat stays in top of cavity.      | Check the wiring.                                                              |
|                     |                                                                       |                                                           | Check the power on the blower.                                                 |
|                     | Main fuse burned                                                      | Short circuit in coil to earth.                           | Check insulation value of coil with a Megger on 500V. Minimum value is 0.5 MΩ. |

## TG 50 H

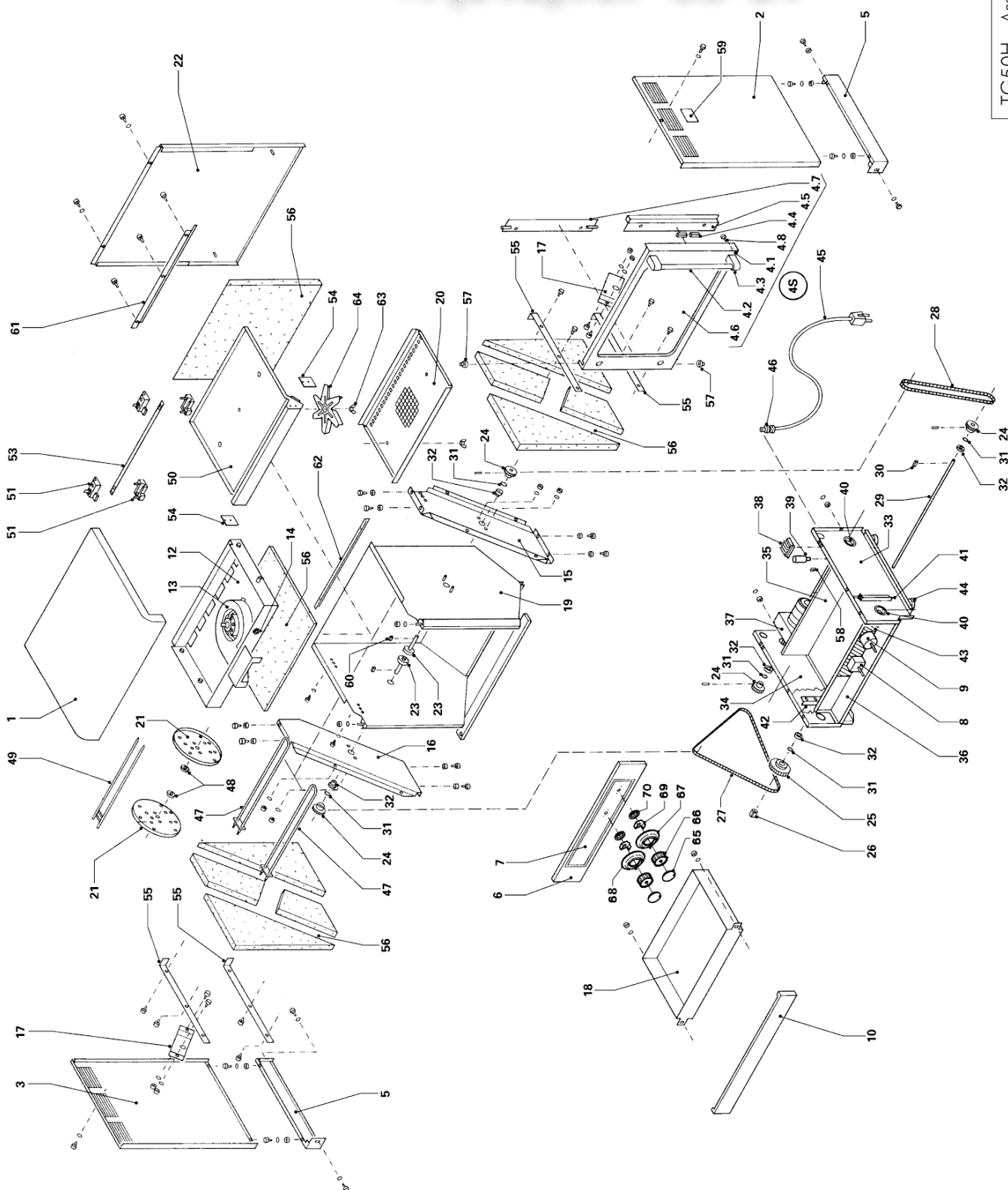
| Description of part | Symptoms                                      | Possible causes                                        | Solving: checking/action                                        |
|---------------------|-----------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------|
| Door                | Broken glass                                  | Slamming of door.                                      | Give instruction to operator.                                   |
|                     |                                               | Fastening bolts and nuts are loose.                    | Tighten all fastenings.                                         |
|                     | Door adjustment                               | Door not well adjusted and closes against bottom side. | Adjust door on hinge and tighten the hinge plate.               |
| Heating element     | Rotisserie doesn't reach adjusted temperature | Wiring.                                                | Check the wiring.                                               |
|                     |                                               |                                                        | Check the power on the element.                                 |
|                     |                                               | Element malfunction.                                   | Check the current with AC current tester. See table on page 24. |
|                     | Duration of grilling time is too long         | Wiring.                                                | Check the wiring.                                               |
|                     |                                               | Element malfunction.                                   | Check the current with AC current tester. See table on page 24. |

# Зип Общепит

| Description of part | Symptoms                                          | Possible causes                         | Solving: checking/action                                          |
|---------------------|---------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------|
| Thermostat          | Oven temperature differs from temperature setting | Wiring.                                 | Check the wiring.                                                 |
|                     |                                                   | Thermostat malfunction.                 | Check if the thermostat is making contact.                        |
|                     |                                                   | Thermostat probe not in right position. | Check the position of the thermostat probe.                       |
| Main switch         | No power to all, or some oven controls            | Wiring.                                 | Check the wiring on the switch.                                   |
|                     |                                                   | Malfunction of the cams on the switch.  | Check the cams.                                                   |
|                     |                                                   | Contacts burned.                        | Check the contacts on the switch.                                 |
| Timer               | No functions of oven are working                  | Wiring.                                 | Check the wiring on the switch.                                   |
|                     |                                                   |                                         | Check the power on the switch.                                    |
|                     |                                                   | Malfunction of the timer.               | Check functions after connecting a new timer.                     |
|                     | Grilling process is working, but doesn't stop     | Malfunction of the timer.               | Check if the time is running down on timer (does it tick).        |
|                     |                                                   |                                         | Check if the timer switches off after reaching the zero position. |

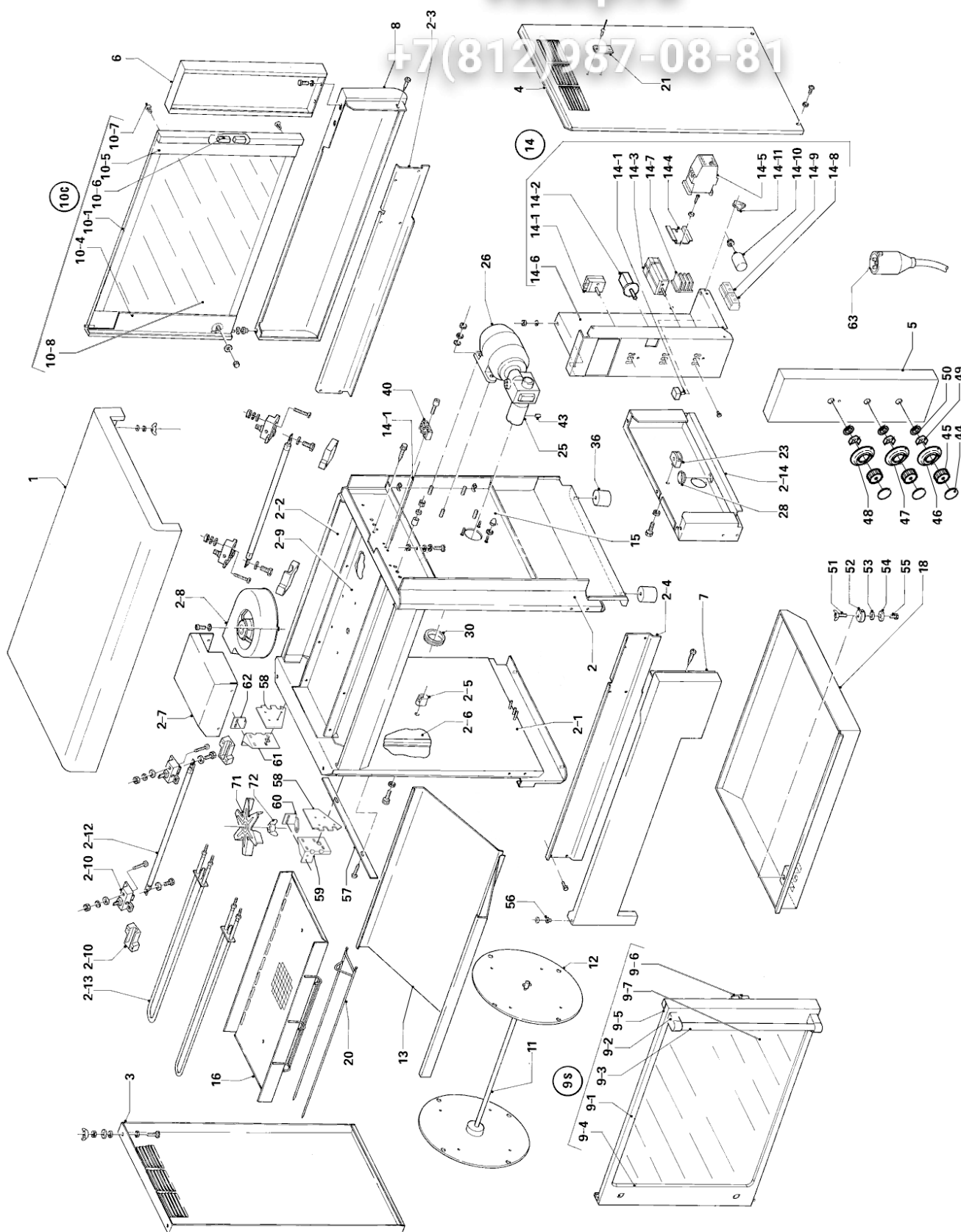
| Description of part | Symptoms                 | Possible causes        | Solving: checking/action                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------|--------------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Capacitor           | Drive motor doesn't work | Wiring.                | Check the wiring.                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                     |                          | Capacitor malfunction. | Check function after connecting a new capacitor.                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                     |                          |                        | <p>Checking of capacitor:<br/>Discharge capacitor with screwdriver. Set meter on MΩ and connect the pins of the meter on contacts, value runs up. Change the pins on contacts, value runs up again. This means the capacitor is OK.</p> <p>Another test is to charge the capacitor with a Megger on 250V and first check the insulation value. Wait for a minute and discharge the capacitor with a screw driver. When it still flashes it means the capacitor is OK.</p> |

| Description of part | Symptoms                                                             | Possible causes                                           | Solving: checking/action                                                                                                                                                      |
|---------------------|----------------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Drive motor         | Motor doesn't run                                                    | Wiring.                                                   | Check the wiring.                                                                                                                                                             |
|                     |                                                                      | Coil malfunction                                          | Check the power to the motor.                                                                                                                                                 |
|                     |                                                                      |                                                           | Check resistance of the coils. Between whiteA and white wire $\pm 240\Omega$<br>Between whiteA and black wire $\pm 120\Omega$<br>Between white and black wire $\pm 120\Omega$ |
|                     |                                                                      |                                                           | Reduction gearbox.                                                                                                                                                            |
|                     | Motor runs after starting it up by hand                              | Capacitor malfunction.                                    | Check capacitor (see capacitor) or connect new capacitor.                                                                                                                     |
|                     | Motor stops during process and comes in again after a period of time | Coil overheated, thermistor switches off (105°C – 221°F). | Check cooling circuit of motor.                                                                                                                                               |
|                     |                                                                      |                                                           | Check if rotisserie is close to another heat source.                                                                                                                          |
|                     |                                                                      |                                                           | Measure temperature motor during process.                                                                                                                                     |
|                     | Main fuse burned                                                     | Short circuit in coil to earth.                           | Check insulation value of coil with Megger on 500V. Minimum value is 0.5 MΩ.                                                                                                  |
| Blower              | Blower doesn't run                                                   | Wiring.                                                   | Check the wiring.                                                                                                                                                             |
|                     |                                                                      | Coil malfunction.                                         | Check the power on the blower.                                                                                                                                                |
|                     |                                                                      |                                                           | Check resistance of the coils. Between the 2 black wires = $\pm 115 \Omega$ .                                                                                                 |
|                     |                                                                      |                                                           | Blower stops during process and comes in again after a period of time                                                                                                         |
|                     | Check if rotisserie is close to another heat source.                 |                                                           |                                                                                                                                                                               |
|                     | Measure temperature blower during process.                           |                                                           |                                                                                                                                                                               |
|                     | Temperature runs up very fast (180°C - 355°F within 5 minutes)       | Blower doesn't turn and heat stays in top of cavity.      | Check the wiring.                                                                                                                                                             |
|                     |                                                                      |                                                           | Check the power on the blower.                                                                                                                                                |
|                     | Main fuse burned                                                     | Short circuit in coil to earth.                           | Check insulation value of coil with a Megger on 500V. Minimum value is 0.5 MΩ.                                                                                                |



| TG50 H - ASSEMBLY |     |            |                              | TG50 H - ASSEMBLY |     |
|-------------------|-----|------------|------------------------------|-------------------|-----|
| ITEM              | QTY | PARTNUMBER | DESCRIPTION                  | ITEM              | QTY |
| 32                | 5   | 9040366    | Bearing                      | 32                | 5   |
| 33                | 1   | 9045691    | Mounting support, right      | 33                | 1   |
| 34                | 1   | 9045756    | Mounting support, left       | 34                | 1   |
| 35                | 1   | 9043330    | Mounting plate, gear motor   | 35                | 1   |
| 36                | 1   | 9043217    | Frame, front                 | 36                | 1   |
| 37                | 1   | 9110161    | Gearmotor                    | 37                | 1   |
| 38                | 1   | 9040374    | Connecting block             | 38                | 1   |
| 39                | 1   | 9110218    | Capacitor 1,5 mF             | 39                | 1   |
| 40                | 2   | 9070840    | Grommet                      | 40                | 2   |
| 41                | 1   | 9043259    | Chain stretcher, right       | 41                | 1   |
| 42                | 1   | 9043267    | Chain stretcher, left        | 42                | 1   |
| 43                | 1   | 9043411    | Insulation plate             | 43                | 1   |
| 44                | 4   | 9057355    | Leg, adjustable              | 44                | 4   |
| 45                | 1   | 9091383    | Connecting cable with plug   | 45                | 1   |
| 46                | 1   | 9040528    | Strain relief                | 46                | 1   |
| 47                | 2   | 9040447    | Heating element, 1000 W/200V | 47                | 2   |
| 48                | 2   | 9040918    | Nut, rotordisc               | 48                | 2   |
| 49                | 3   | 9040900    | Meatfork                     | 49                | 3   |
| 50                | 1   | 9045625    | Ceiling                      | 50                | 1   |
| 51                | 2   | 9110023    | Lamp holder, cap + housing   | 51                | 2   |
| 53                | 1   | 9056082    | Lamp, quartz, 1000 W         | 53                | 1   |
| 54                | 2   | 9043542    | Reinforcement                | 54                | 2   |
| 55                | 2   | 9043225    | Fastening strip, insulation  | 55                | 2   |
| 56                | 1   | 9004718    | Insulation plate             | 56                | 1   |
| 57                | 2   | 0602072    | Brass bearing, 6 mm          | 57                | 2   |
| 58                | 1   | 0166555    | Earth symbol                 | 58                | 1   |
| 59                | 1   | 9123467    | Indication plate             | 59                | 1   |
| 60                | 2   | 9043877    | Sunk key, 4 x 4 x 8 mm       | 60                | 2   |
| 61                | 1   | 9043241    | Fastening, insulation        | 61                | 1   |
| 62                | 1   | 9043348    | Wall fastening profile       | 62                | 1   |
| 63                | 1   | 9073150    | Wingnut, left hand threaded  | 63                | 1   |
| 64                | 1   | 9110153    | Fanblade                     | 64                | 1   |
| 65                | 2   | 9172050    | Cover, knob                  | 65                | 2   |
| 66                | 2   | 9172022    | Control knob, black          | 66                | 2   |
| 67                | 1   | 9172296    | Back plate, 120 min.         | 67                | 1   |
| 68                | 1   | 9172298    | Back plate, 250°C            | 68                | 1   |
| 69                | 2   | 9172052    | Locking ring, knob           | 69                | 2   |
| 70                | 2   | 9110802    | Plug, TG                     | 70                | 2   |

| TG50 H - ASSEMBLY |     |            |                         | TG50 H - ASSEMBLY |     |
|-------------------|-----|------------|-------------------------|-------------------|-----|
| ITEM              | QTY | PARTNUMBER | DESCRIPTION             | ITEM              | QTY |
| 1                 | 1   | 9045609    | Cap, top                | 1                 | 1   |
| 2                 | 1   | 9043005    | Side panel, right       | 2                 | 1   |
| 3                 | 1   | 9043013    | Side panel, left        | 3                 | 1   |
| 4.S               | 1   | 9046520    | Door service side, ass. | 4.S               | 1   |
| 4-1               | 1   | 9048788    | Doorframe               | 4-1               | 1   |
| 4-2               | 1   | 9043160    | Door handle             | 4-2               | 1   |
| 4-3               | 2   | 9040031    | Holder, door handle     | 4-3               | 2   |
| 4-4               | 7   | 9040081    | Magnet block            | 4-4               | 7   |
| 4-5               | 1   | 9043110    | Holder, magnet          | 4-5               | 1   |
| 4-6               | 1   | 9040976    | Glass                   | 4-6               | 1   |
| 4-7               | 1   | 9045633    | Hinge pin, profile      | 4-7               | 1   |
| 4-8               | 2   | 4288319    | Screw 6x20              | 4-8               | 2   |
| 5                 | 2   | 9048796    | Plinth                  | 5                 | 2   |
| 6                 | 1   | 9045617    | Front                   | 6                 | 1   |
| 7                 | 1   | 9048763    | Operation panel         | 7                 | 1   |
| 8                 | 1   | 9040968    | Thermostat 50-250 °C    | 8                 | 1   |
| 9                 | 1   | 9040463    | Timer, 120 min.         | 9                 | 1   |
| 10                | 1   | 9048801    | Drawer front            | 10                | 1   |
| 12                | 1   | 9045641    | Mounting plate, blower  | 12                | 1   |
| 13                | 1   | 9070581    | Blower                  | 13                | 1   |
| 14                | 2   | 9082211    | Grommet                 | 14                | 2   |
| 15                | 1   | 9043314    | Bearing block, right    | 15                | 1   |
| 16                | 1   | 9043398    | Bearing block, left     | 16                | 1   |
| 17                | 2   | 9043291    | Bearing cap             | 17                | 2   |
| 18                | 1   | 9045659    | Grease drawer           | 18                | 1   |
| 19                | 1   | 9044996    | Frame, rotisserie       | 19                | 1   |
| 20                | 1   | 9043089    | Plate, air guide        | 20                | 1   |
| 21                | 2   | 9043306    | Rotor disc              | 21                | 2   |
| 22                | 1   | 9043039    | Back wall               | 22                | 1   |
| 23                | 2   | 9045675    | Drive head              | 23                | 2   |
| 24                | 4   | 9040887    | Chainguide, wheel       | 24                | 4   |
| 25                | 1   | 9044302    | Chainguide, wheel       | 25                | 1   |
| 26                | 1   | 9044310    | Clamping bush           | 26                | 1   |
| 27                | 1   | 9040861    | Chain, motorside        | 27                | 1   |
| 28                | 1   | 9040879    | Chain                   | 28                | 1   |
| 29                | 1   | 9040895    | Shaft                   | 29                | 1   |
| 30                | 2   | 4311738    | Sunk key, 4 x 4 x 12 mm | 30                | 2   |
| 31                | 4   | 4312174    | Clip ring               | 31                | 4   |



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| ITEM  | QTY | PARTNUMBER | DESCRIPTION                           |
|-------|-----|------------|---------------------------------------|
| 12    | 2   | 9175000    | Rotor disc 3 mm, stainless steel      |
| 13    | 2   | 9041142    | Bottom plate                          |
| 14    | 1   | 9046372    | Electric panel, ass.                  |
| 14-1  | 2   | 9070531    | Thermostat 50-250 °C                  |
| 14-2  | 1   | 9040463    | Timer, 120 min.                       |
| 14-3  | 1   | 9172056    | Main switch                           |
| 14-4  | 1   | 9077088    | Bracket, Contactor                    |
| 14-5  | 1   | 9077070    | Contactor                             |
| 14-6  | 1   | 9045324    | Mounting plate, electrical components |
| 14-7  | 1   | 9040374    | Connecting block                      |
| 14-8  | 1   | 9044564    | Connecting block, 1,2,3               |
| 14-9  | 1   | 9044572    | Connecting block, 4,5,6               |
| 14-10 | 1   | 9171084    | Capacitor 4 mF                        |
| 14-11 | 1   | 0166555    | Earth symbol                          |
| 15    | 1   | 9045073    | Mounting plate, gear motor            |
| 16    | 1   | 9045188    | Plate, air guide                      |
| 18    | 1   | 9044815    | Drawer                                |
| 20    | 4   | 9010549    | Meatfork, stainless steel             |
| 21    | 1   | 9110810    | Indication plate                      |
| 23    | 1   | 9050426    | Strain relief                         |
| 25    | 1   | 9070206    | Drive head                            |
| 26    | 1   | 9070565    | Gearmotor                             |
| 28    | 1   | 9070840    | Grommet                               |
| 30    | 1   | 9073131    | Sealing ring                          |
| 36    | 4   | 9082910    | Leg,adjustable                        |
| 40    | 1   | 0166505    | Connection block                      |
| 43    | 1   | 9008233    | Screw, adjusting                      |
| 44    | 3   | 9172050    | Cover, knob                           |
| 45    | 3   | 9172022    | Control knob, black                   |
| 46    | 1   | 9172297    | Back plate, main switch               |
| 47    | 1   | 9172296    | Back plate, 120 min.                  |
| 48    | 1   | 9172298    | Back plate, 250°C                     |
| 49    | 3   | 9172052    | Locking ring, knob                    |
| 50    | 3   | 9110802    | Plug, TG                              |

| TG110 H - ASSEMBLY |     |            | DESCRIPTION                                    |
|--------------------|-----|------------|------------------------------------------------|
| ITEM               | QTY | PARTNUMBER | DESCRIPTION                                    |
| 2-1                | 1   | 9045015    | Side panel, left                               |
| 2-2                | 1   | 9045081    | Ceiling                                        |
| 2-3                | 1   | 9041184    | Reinforcement, customer side                   |
| 2-4                | 1   | 9041192    | Reinforcement, service side                    |
| 2-5                | 1   | 9070167    | Steel bearing, 12 mm                           |
| 2-6                | 1   | 9041312    | Reinforcement, bearing                         |
| 2-7                | 1   | 9041354    | Air deflector                                  |
| 2-8                | 1   | 9070581    | Blower                                         |
| 2-9                | 1   | 9045065    | Fan plate                                      |
| 2-10               | 4   | 9110023    | Lamp holder, cap + housing                     |
| 2-12               | 2   | 9056082    | Lamp, quartz, 1000 W                           |
| 2-13               | 2   | 9040015    | Heating element, 1500 W                        |
| 2-14               | 1   | 9041362    | Mounting plate                                 |
| 3                  | 1   | 9041011    | Plate, outer, left                             |
| 4                  | 1   | 9041029    | Plate, outer, right                            |
| 5                  | 1   | 9048047    | Operation panel                                |
| 6                  | 1   | 9048267    | Name panel                                     |
| 7                  | 1   | 9045049    | Front, under, service side                     |
| 8                  | 1   | 9045057    | Front, under, customer side                    |
| 9-5                | 1   | 9046030    | Door service side, ass.                        |
| 9-1                | 1   | 9048518    | Doorframe                                      |
| 9-2                | 2   | 9040031    | Holder, door handle                            |
| 9-3                | 1   | 9040243    | Door handle                                    |
| 9-4                | 1   | 9045099    | Hinge pin, profile                             |
| 9-5                | 1   | 9041053    | Holder, magnet                                 |
| 9-6                | 8   | 9040081    | Magnet block                                   |
| 9-7                | 1   | 9077054    | Glass                                          |
| 10-C               | 1   | 9046020    | Door customer side, ass.                       |
| 10-1               | 1   | 9048518    | Doorframe                                      |
| 10-4               | 1   | 9045099    | Hinge pin, profile                             |
| 10-5               | 1   | 9041053    | Holder, magnet                                 |
| 10-6               | 8   | 9040081    | Magnet block                                   |
| 10-7               | 2   | 9044378    | Plug                                           |
| 10-8               | 1   | 9077054    | Glass                                          |
| 11                 | 1   | 9170571    | Rotor shaft, incl. disc studs, stainless steel |

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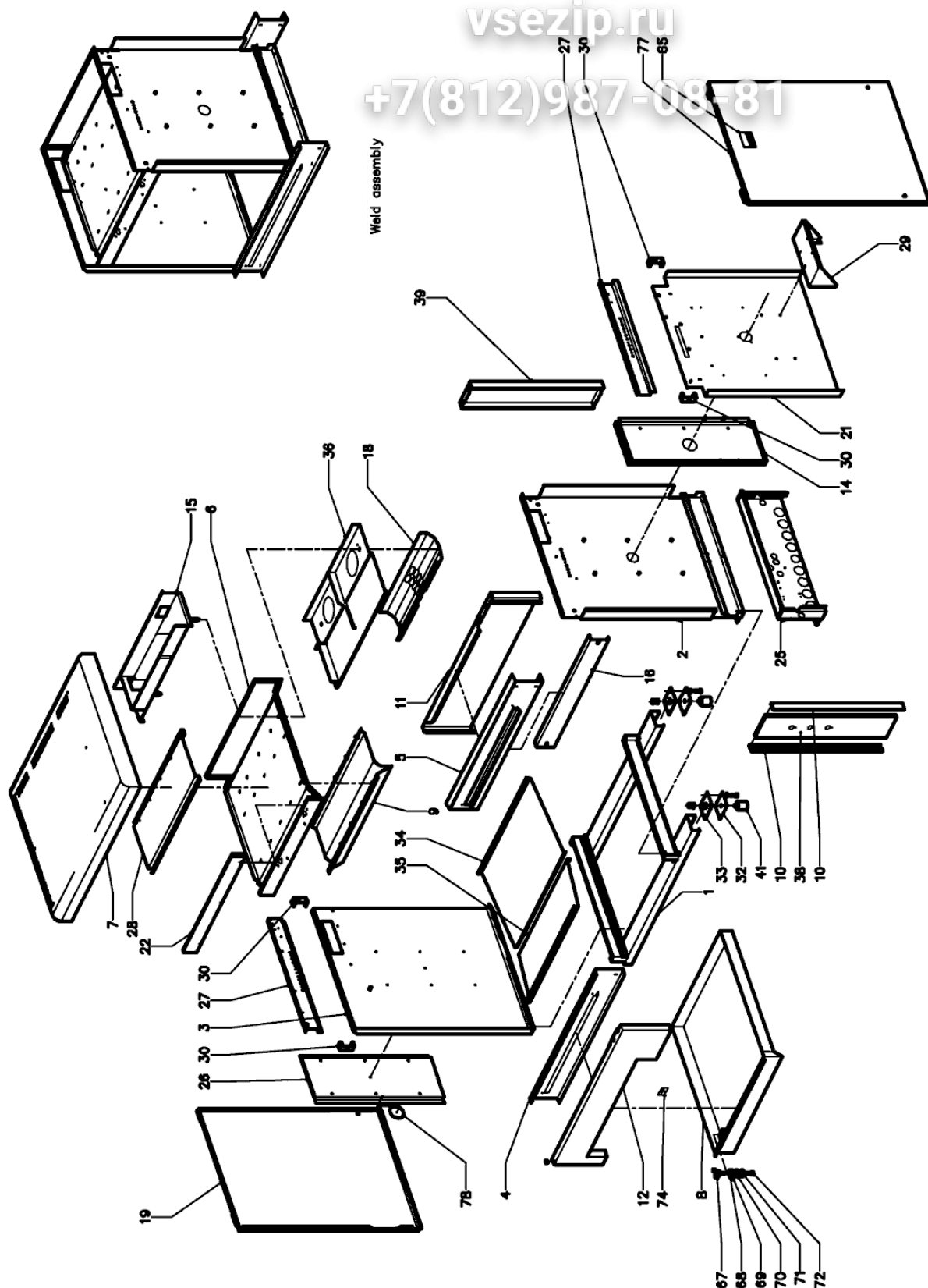
| TG110 H - ASSEMBLY |     |            |                             | DESCRIPTION |
|--------------------|-----|------------|-----------------------------|-------------|
| ITEM               | QTY | PARTNUMBER |                             |             |
| 51                 | 1   | 4311047    | Wingscrew                   |             |
| 52                 | 1   | 9070777    | Brass seat                  |             |
| 53                 | 1   | 9073987    | Washer                      |             |
| 54                 | 1   | 9070670    | Gasket, Vilon               |             |
| 55                 | 1   | 9070688    | Bolt, M8x12                 |             |
| 56                 | 2   | 0602072    | Brass bearing, 6 mm         |             |
| 57                 | 1   | 9041320    | Mounting plate              |             |
| 58                 | 2   | 9175097    | Tap plate, hinge            |             |
| 59                 | 1   | 9175094    | Hinge plate, service side   |             |
| 60                 | 1   | 9175096    | Hinge, service side         |             |
| 61                 | 1   | 9175150    | Hinge plate, customer side  |             |
| 62                 | 1   | 9175151    | Hinge, customer side        |             |
| 70                 | 2   | 9041061    | Tap plate, hinge            |             |
| 71                 | 1   | 9110153    | Fanblade                    |             |
| 72                 | 1   | 9073150    | Wingnut, left hand threaded |             |

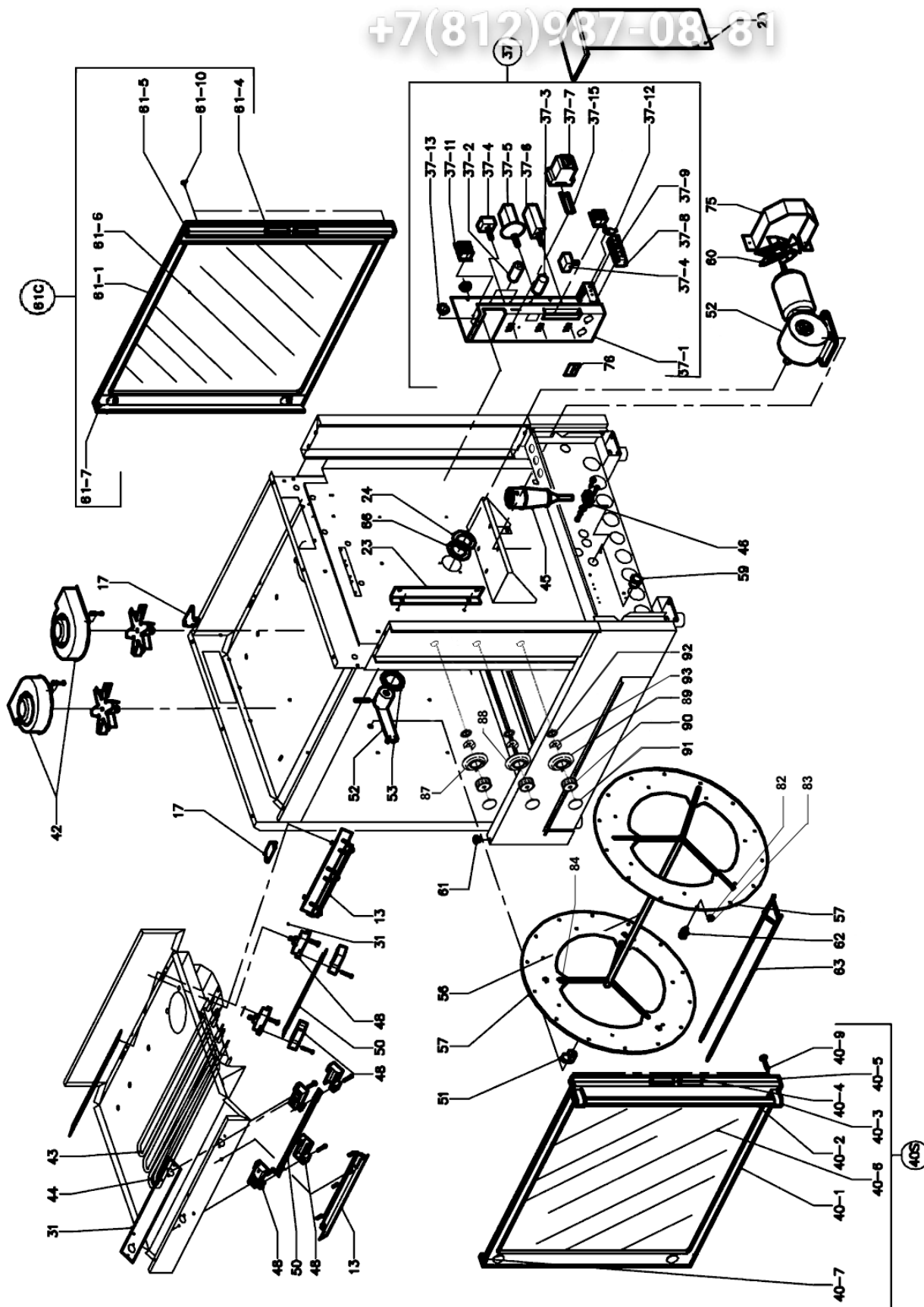
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TG330H - Sheet Iron Work





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| ITEM | QTY | PARTNUMBER | DESCRIPTION                |
|------|-----|------------|----------------------------|
| 68   | 1   | 9070777    | Brass seat                 |
| 69   | 1   | 9077004    | Screw, adjusting           |
| 70   | 1   | 9073987    | Washer                     |
| 71   | 1   | 9070670    | Gasket, Viton              |
| 72   | 1   | 9070688    | Bolt, M8x12                |
| 74   | 1   | 9073351    | Sticker, warning           |
| 77   | 1   | 9112406    | Side panel, right          |
| 78   | 4   | 9112430    | Washer, insulation support |

| TG330 H - COMPONENTS |     |            |                                       |
|----------------------|-----|------------|---------------------------------------|
| ITEM                 | QTY | PARTNUMBER | DESCRIPTION                           |
| 13                   | 2   | 9116662    | Protection, lamp                      |
| 17                   | 2   | 9111882    | Hinge                                 |
| 20                   | 1   | 9116785    | Cover plate, electric components      |
| 23                   | 1   | 9112074    | Hinge (angle)                         |
| 24                   | 1   | 9112090    | Washer, seal                          |
| 31                   | 2   | 9112210    | Mounting plate, lamp holder           |
| 37                   | 1   | 9118771    | Electric panel, ass.                  |
| 37-1                 | 1   | 9116696    | Mounting plate, electrical components |
| 37-2                 | 2   | 9110030    | Capacitor 1,5 mF                      |
| 37-3                 | 1   | 9077101    | Capacitor 2,5 mF                      |
| 37-4                 | 2   | 9070531    | Thermostat 50-250 °C                  |
| 37-5                 | 1   | 9040463    | Timer, 120 min.                       |
| 37-6                 | 1   | 9172056    | Main switch                           |
| 37-7                 | 1   | 9077070    | Contactor                             |
| 37-8                 | 1   | 9044564    | Connecting block, 1,2,3               |
| 37-9                 | 1   | 9044572    | Connecting block, 4,5,6               |
| 37-11                | 2   | 9040374    | Connecting block                      |
| 37-12                | 1   | 0166555    | Earth symbol                          |
| 37-13                | 2   | 9070840    | Grommet                               |
| 37-15                | 1   | 9077088    | Bracket, Contactor                    |
| 40-5                 | 1   | 9046180    | Door service side, ass.               |
| 40-1                 | 1   | 9048550    | Doorframe                             |
| 40-2                 | 1   | 9040251    | Door handle                           |
| 40-3                 | 2   | 9040031    | Holder, door handle                   |
| 40-4                 | 12  | 9040081    | Magnet block                          |

| TG330 H - SHEET IRON WORK |     |            |                                  |
|---------------------------|-----|------------|----------------------------------|
| ITEM                      | QTY | PARTNUMBER | DESCRIPTION                      |
| 1                         | 1   | 9116507    | Base frame                       |
| 2                         | 1   | 9116515    | Side panel, right                |
| 3                         | 1   | 9116523    | Side panel, left                 |
| 4                         | 1   | 9116531    | Inner front, service side        |
| 5                         | 1   | 9116549    | Inner front, customer side       |
| 6                         | 1   | 9111549    | Ceiling                          |
| 7                         | 1   | 9116557    | Cap, top                         |
| 8                         | 1   | 9116599    | Drawer                           |
| 9                         | 1   | 9116612    | Heat shield                      |
| 10                        | 2   | 9116620    | Border                           |
| 11                        | 1   | 9116638    | Border, customer side            |
| 12                        | 1   | 9116646    | Border, service side             |
| 14                        | 1   | 9116670    | Reinforcement, side plate, right |
| 15                        | 1   | 9116573    | Mounting plate, blower           |
| 16                        | 1   | 9111727    | Sealing profile                  |
| 18                        | 1   | 9111913    | Air guide plate                  |
| 19                        | 1   | 9111939    | Side panel, left                 |
| 21                        | 1   | 9112016    | Cover plate                      |
| 22                        | 1   | 9112058    | Filling part                     |
| 25                        | 1   | 9112105    | Mounting plate                   |
| 26                        | 1   | 9112121    | Reinforcement, side plate        |
| 27                        | 2   | 9112139    | Side reinforcement               |
| 28                        | 1   | 9112155    | Reinforcement, ceiling           |
| 29                        | 1   | 9112171    | Support, gear motor              |
| 30                        | 4   | 9112202    | Reinforcement, hinge             |
| 32                        | 4   | 9041778    | Mounting plate, castor/leg       |
| 33                        | 4   | 9042148    | Mounting plate, leg              |
| 34                        | 1   | 9111565    | Drip tray, large                 |
| 35                        | 1   | 9111604    | Drip tray, small                 |
| 36                        | 1   | 9116581    | Cover plate, blower              |
| 38                        | 1   | 9118021    | Operation panel                  |
| 39                        | 1   | 9118135    | Name panel                       |
| 41                        | 4   | 9011260    | Leg, rubber                      |
| 65                        | 1   | 9110810    | Indication plate                 |
| 67                        | 1   | 4311047    | Wingscrew                        |

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| ITEM | QTY | PARTNUMBER | DESCRIPTION             |
|------|-----|------------|-------------------------|
| 87   | 1   | 9172298    | Back plate, 250°C       |
| 88   | 1   | 9172296    | Back plate, 120 min.    |
| 89   | 1   | 9172297    | Back plate, main switch |
| 90   | 3   | 9172022    | Control knob, black     |
| 91   | 3   | 9172050    | Cover, knob             |
| 92   | 3   | 9110802    | Plug, TG                |
| 93   | 3   | 9172052    | Locking ring, knob      |

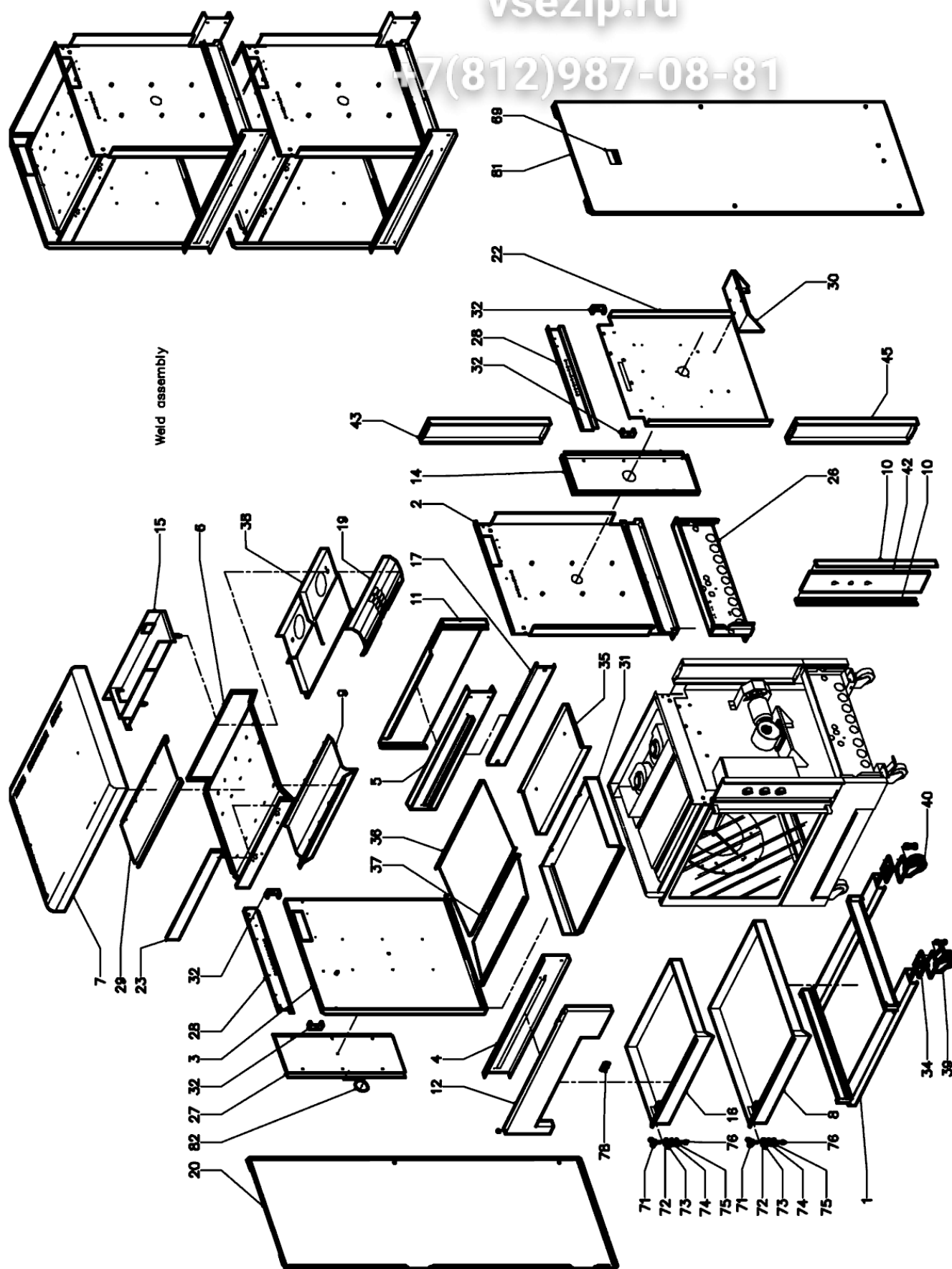
| TG330 H - COMPONENTS |     |            |                                                | DESCRIPTION |
|----------------------|-----|------------|------------------------------------------------|-------------|
| ITEM                 | QTY | PARTNUMBER |                                                |             |
| 40-5                 | 1   | 9041590    | Holder, magnet                                 |             |
| 40-6                 | 1   | 9077062    | Glass                                          |             |
| 40-7                 | 1   | 9045162    | Hinge pin, profile                             |             |
| 40-9                 | 2   | 4288319    | Screw 6x20                                     |             |
| 42                   | 2   | 9110048    | Blower                                         |             |
| 43                   | 2   | 9040023    | Heating element, 2100 W                        |             |
| 44                   | 1   | 9044653    | Heating element, 3100 W                        |             |
| 45                   | 1   | 9070028    | Connecting cable with plug                     |             |
| 46                   | 1   | 9050426    | Strain relief                                  |             |
| 48                   | 4   | 9110023    | Lamp holder, cap + housing                     |             |
| 50                   | 2   | 9056082    | Lamp, quartz, 1000 W                           |             |
| 51                   | 1   | 9070175    | Steel bearing, 14 mm                           |             |
| 52                   | 1   | 9116808    | Gearmotor, complete with drive arm             |             |
| 53                   | 1   | 9073131    | Sealing ring                                   |             |
| 56                   | 1   | 9070272    | Rotor shaft, stainless steel                   |             |
| 57                   | 2   | 9174351    | Rotor disc 3 mm, stainless steel               |             |
| 59                   | 1   | 9070840    | Grommet                                        |             |
| 60                   | 1   | 2000072    | Fanblade, motor                                |             |
| 61                   | 4   | 0602072    | Brass bearing, 6 mm                            |             |
| 62                   | 14  | 9172169    | Support pin, stainless steel                   |             |
| 63                   | 7   | 9070353    | Meatfork, stainless steel                      |             |
| 66                   | 1   | 9110797    | Sealing, drive bearing                         |             |
| 75                   | 1   | 9112375    | Protection support                             |             |
| 76                   | 1   | 9112383    | Bracket, timer                                 |             |
| 81.C                 | 1   | 9046190    | Door customer side, ass.                       |             |
| 81-1                 | 1   | 9048550    | Doorframe                                      |             |
| 81-4                 | 12  | 9040081    | Magnet block                                   |             |
| 81-5                 | 1   | 9041590    | Holder, magnet                                 |             |
| 81-6                 | 1   | 9077062    | Glass                                          |             |
| 81-7                 | 1   | 9045162    | Hinge pin, profile                             |             |
| 81-10                | 2   | 9044378    | Plug                                           |             |
| 82                   | 14  | 4312271    | Nut M8, support pin, stainless steel           |             |
| 83                   | 14  | 0142056    | Spring washer M8, support pin, stainless steel |             |
| 84                   | 12  | 4288230    | Tensile bolt M5x10                             |             |

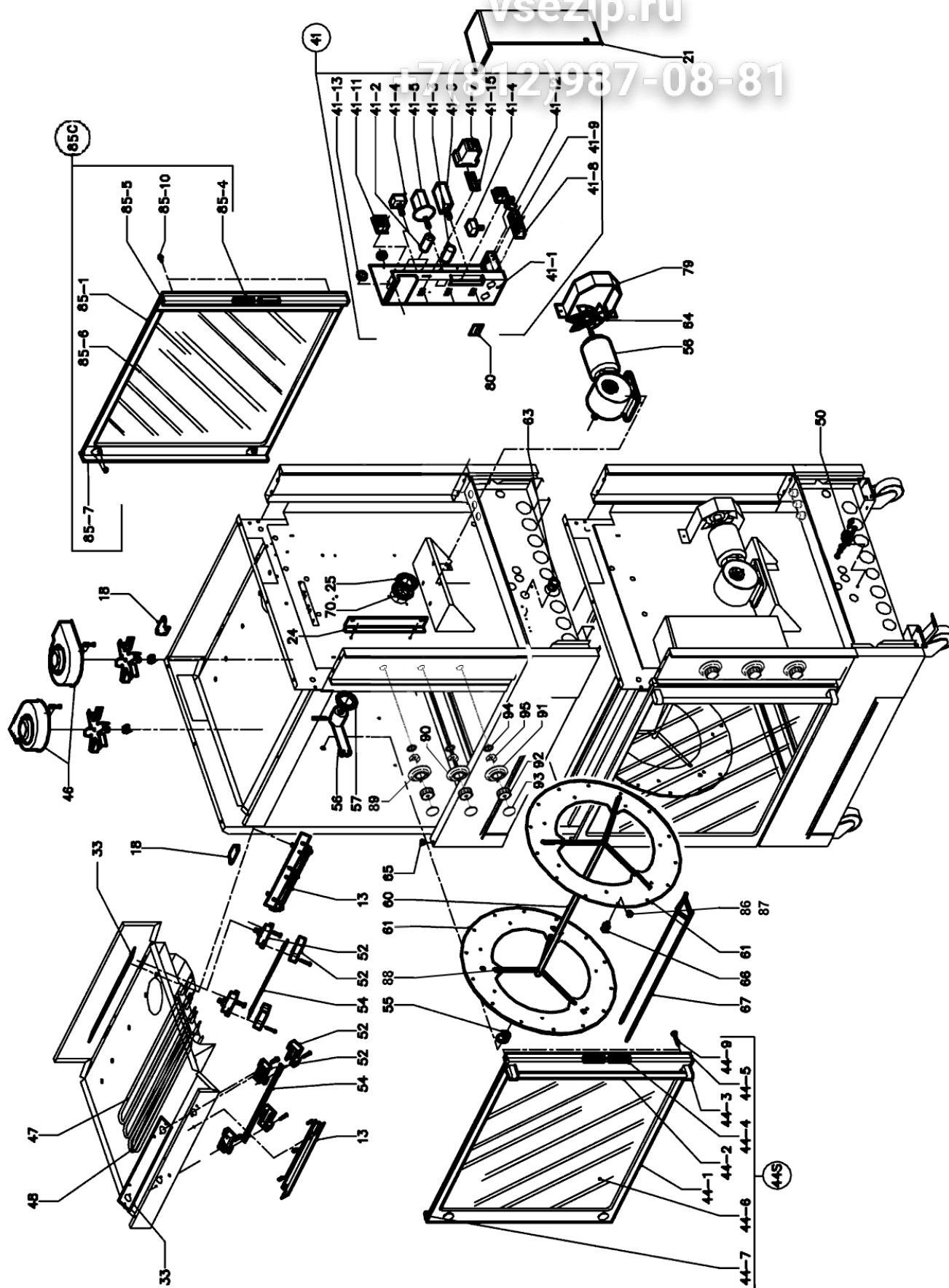
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TG550H - Sheet Iron Work





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| ITEM | QTY | PARTNUMBER | DESCRIPTION                |
|------|-----|------------|----------------------------|
| 43   | 1   | 9118135    | Name panel                 |
| 45   | 1   | 9118151    | Panel, customer side       |
| 69   | 1   | 9110810    | Indication plate           |
| 71   | 2   | 4311047    | Wingscrew                  |
| 72   | 2   | 9070777    | Brass seat                 |
| 73   | 2   | 9077004    | Screw, adjusting           |
| 74   | 2   | 9073987    | Washer                     |
| 75   | 2   | 9070670    | Gasket, Viton              |
| 76   | 2   | 9070688    | Bolt, M8x12                |
| 78   | 1   | 9073351    | Sticker, warning           |
| 81   | 1   | 9112391    | Side panel, outer          |
| 82   | 8   | 9112430    | Washer, insulation support |

| TG550 H - COMPONENTS |     |            |                                       |
|----------------------|-----|------------|---------------------------------------|
| ITEM                 | QTY | PARTNUMBER | DESCRIPTION                           |
| 13                   | 4   | 9116662    | Protection, lamp                      |
| 18                   | 4   | 9111882    | Hinge                                 |
| 21                   | 2   | 9116785    | Cover plate, electric components      |
| 24                   | 2   | 9112074    | Hinge (angle)                         |
| 25                   | 2   | 9112090    | Washer, seal                          |
| 33                   | 4   | 9112210    | Mounting plate, lamp holder           |
| 41                   | 2   | 9118771    | Electric panel, ass.                  |
| 41-1                 | 2   | 9116696    | Mounting plate, electrical components |
| 41-2                 | 4   | 9110030    | Capacitor 1,5 mF                      |
| 41-3                 | 2   | 9077101    | Capacitor 2,5 mF                      |
| 41-4                 | 4   | 9070531    | Thermostat 50-250 °C                  |
| 41-5                 | 2   | 9040463    | Timer, 120 min.                       |
| 41-6                 | 2   | 9172056    | Main switch                           |
| 41-7                 | 2   | 9077070    | Contact                               |
| 41-8                 | 2   | 9044564    | Connecting block, 1,2,3               |
| 41-9                 | 2   | 9044572    | Connecting block, 4,5,6               |
| 41-11                | 4   | 9040374    | Connecting block                      |
| 41-12                | 2   | 0166555    | Earth symbol                          |
| 41-13                | 2   | 9070840    | Grommet                               |
| 41-14                | 2   | 0054211    | Strain relief                         |
| 41-15                | 2   | 9077088    | Bracket, Contactor                    |

| TG550 H - SHEET IRON WORK |     |            |                                  |
|---------------------------|-----|------------|----------------------------------|
| ITEM                      | QTY | PARTNUMBER | DESCRIPTION                      |
| 1                         | 1   | 9116507    | Base frame                       |
| 2                         | 2   | 9116515    | Side panel, right                |
| 3                         | 2   | 9116523    | Side panel, left                 |
| 4                         | 2   | 9116531    | Inner front, service side        |
| 5                         | 2   | 9116549    | Inner front, customer side       |
| 6                         | 2   | 9111549    | Ceiling                          |
| 7                         | 1   | 9116557    | Cap. top                         |
| 8                         | 1   | 9116599    | Drawer                           |
| 9                         | 2   | 9116612    | Heat shield                      |
| 10                        | 4   | 9116620    | Border                           |
| 11                        | 2   | 9116638    | Border, customer side            |
| 12                        | 2   | 9116646    | Border, service side             |
| 14                        | 2   | 9116670    | Reinforcement, side plate, right |
| 15                        | 2   | 9116573    | Mounting plate, blower           |
| 16                        | 1   | 9116604    | Drawer                           |
| 17                        | 2   | 9111727    | Sealing profile                  |
| 19                        | 2   | 9111913    | Air guide plate                  |
| 20                        | 1   | 9111921    | Side panel, outer                |
| 22                        | 2   | 9112016    | Cover plate                      |
| 23                        | 1   | 9112058    | Filling part                     |
| 26                        | 2   | 9112105    | Mounting plate                   |
| 27                        | 2   | 9112121    | Reinforcement, side plate        |
| 28                        | 4   | 9112139    | Side reinforcement               |
| 29                        | 2   | 9112155    | Reinforcement, ceiling           |
| 30                        | 2   | 9112171    | Support, gear motor              |
| 31                        | 1   | 9116565    | Separation plate                 |
| 32                        | 8   | 9112202    | Reinforcement, hinge             |
| 34                        | 4   | 9041778    | Mounting plate, castor/leg       |
| 35                        | 1   | 9116654    | Cover plate, blower              |
| 36                        | 2   | 9111565    | Drip tray, large                 |
| 37                        | 2   | 9111604    | Drip tray, small                 |
| 38                        | 2   | 9116581    | Cover plate, blower              |
| 39                        | 2   | 9011422    | Castor with brake                |
| 40                        | 2   | 9011430    | Castor without brake             |
| 42                        | 2   | 9118039    | Operation panel                  |

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| ITEM  | QTY | PARTNUMBER | DESCRIPTION                                    |
|-------|-----|------------|------------------------------------------------|
| 85-6  | 2   | 9077062    | Glass                                          |
| 85-7  | 2   | 9045162    | Hinge pin, profile                             |
| 85-10 | 4   | 9044378    | Plug                                           |
| 86    | 28  | 4312271    | Nut M8, support pin, stainless steel           |
| 87    | 28  | 0142056    | Spring washer M8, support pin, stainless steel |
| 88    | 24  | 4288230    | Tensilock bolt M5x10                           |
| 89    | 2   | 9172298    | Back plate, 250°C                              |
| 90    | 2   | 9172296    | Back plate, 120 min.                           |
| 91    | 2   | 9172297    | Back plate, main switch                        |
| 92    | 6   | 9172022    | Control knob, black                            |
| 93    | 6   | 9172050    | Cover, knob                                    |
| 94    | 6   | 9110802    | Plug, TG                                       |
| 95    | 6   | 9172052    | Locking ring, knob                             |

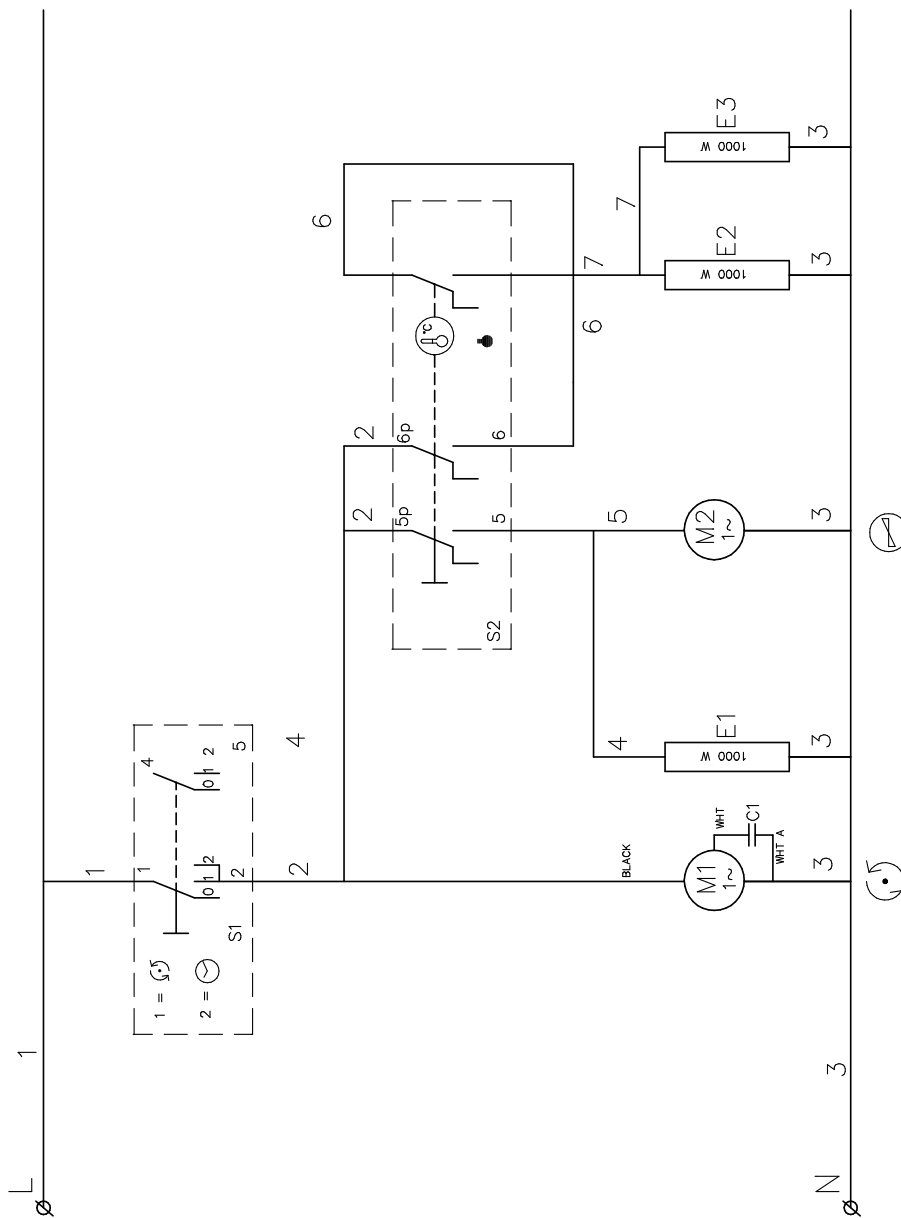
| TG550 H - COMPONENTS |     |            |                                    |
|----------------------|-----|------------|------------------------------------|
| ITEM                 | QTY | PARTNUMBER | DESCRIPTION                        |
| 44.S                 | 2   | 9046180    | Door service side, ass.            |
| 44-1                 | 2   | 9048550    | Doorframe                          |
| 44-2                 | 2   | 9040251    | Door handle                        |
| 44-3                 | 4   | 9040031    | Holder, door handle                |
| 44-4                 | 24  | 9040081    | Magnet block                       |
| 44-5                 | 2   | 9041590    | Holder, magnet                     |
| 44-6                 | 2   | 9077062    | Glass                              |
| 44-7                 | 2   | 9045162    | Hinge pin, profile                 |
| 44-9                 | 4   | 4288319    | Screw 6x20                         |
| 46                   | 4   | 9110048    | Blower                             |
| 47                   | 4   | 9040023    | Heating element, 2100 W            |
| 48                   | 2   | 9044653    | Heating element, 3100 W            |
| 49                   | 1   | 9070044    | Connecting cable with plug         |
| 50                   | 2   | 9050426    | Strain relief                      |
| 52                   | 8   | 9110023    | Lamp holder, cap + housing         |
| 54                   | 4   | 9056082    | Lamp, quartz, 1000 W               |
| 55                   | 2   | 9070175    | Steel bearing, 14 mm               |
| 56                   | 2   | 9116808    | Gearmotor, complete with drive arm |
| 57                   | 2   | 9073131    | Sealing ring                       |
| 60                   | 2   | 9070272    | Rotor shaft, stainless steel       |
| 61                   | 4   | 9174351    | Rotor disc 3 mm, stainless steel   |
| 63                   | 2   | 9070840    | Grommet                            |
| 64                   | 2   | 2000072    | Fanblade, motor                    |
| 65                   | 8   | 0602072    | Brass bearing, 6 mm                |
| 66                   | 28  | 9172169    | Support pin, stainless steel       |
| 67                   | 1   | 9070353    | Meatfork, stainless steel          |
| 70                   | 2   | 9110797    | Sealing, drive bearing             |
| 79                   | 2   | 9112375    | Protection support                 |
| 80                   | 2   | 9112383    | Bracket, fimer                     |
| 85.C                 | 2   | 9046190    | Door customer side, ass.           |
| 85-1                 | 2   | 9048550    | Doorframe                          |
| 85-4                 | 24  | 9040081    | Magnet block                       |
| 85-5                 | 2   | 9041590    | Holder, magnet                     |

# Зип Общепит

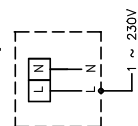
## ELECTRICAL DIAGRAMS

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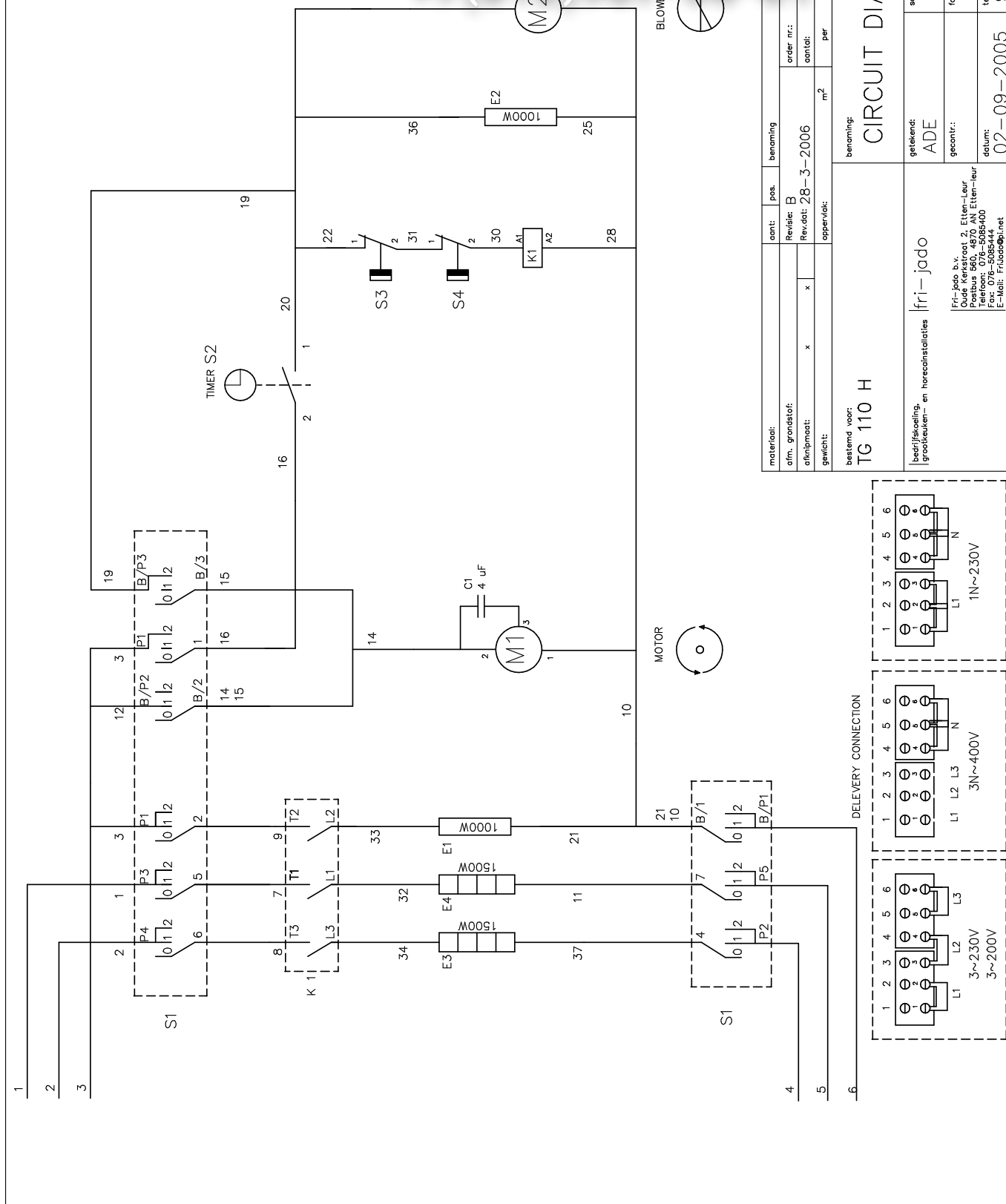


Delivery connections

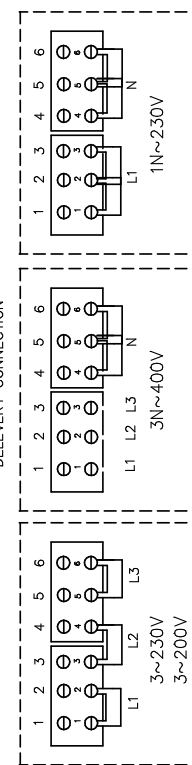


|                                                                                                                                                                 |                 |                |                     |            |           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------|---------------------|------------|-----------|
| material:                                                                                                                                                       | aant.           | pos.           | benaming            | order nr.  | order nr. |
| afm. grondstof:                                                                                                                                                 | Revizier:       | A              | Reviziet: 8-12-2005 | order nr.: | order nr. |
| afm. grondstof:                                                                                                                                                 | afm. grondstof: | x              | x                   | aantal:    | aantal:   |
| gewicht:                                                                                                                                                        | oppervlakte:    | m <sup>2</sup> | per                 | produkt    | order     |
| bestemd voor:                                                                                                                                                   |                 |                |                     |            |           |
| TG 50                                                                                                                                                           |                 |                |                     |            |           |
| benaming:                                                                                                                                                       |                 |                |                     |            |           |
| CIRCUIT DIAGRAM                                                                                                                                                 |                 |                |                     |            |           |
| bedrijfsaandelen- en horecainstallaties                                                                                                                         |                 |                |                     |            |           |
| frij-jado                                                                                                                                                       |                 |                |                     |            |           |
| frij-jado b.v.<br>Oude Kerkstraat 2, Etten-Leur<br>Postbus 560, 4870 AN Etten-Leur<br>Telefoon: 076-5085400<br>Fax: 076-5085401<br>E-Mail: Frij-jado@vsezip.net |                 |                |                     |            |           |
| getekend:                                                                                                                                                       |                 |                |                     |            |           |
| ADE/JHE                                                                                                                                                         |                 |                |                     |            |           |
| schaal:                                                                                                                                                         |                 |                |                     |            |           |
| 1:2                                                                                                                                                             |                 |                |                     |            |           |
| gecont.                                                                                                                                                         |                 |                |                     |            |           |
| A3                                                                                                                                                              |                 |                |                     |            |           |
| datum:                                                                                                                                                          |                 |                |                     |            |           |
| 7-12-2005                                                                                                                                                       |                 |                |                     |            |           |
| tekening nr.:                                                                                                                                                   |                 |                |                     |            |           |
| 9170887                                                                                                                                                         |                 |                |                     |            |           |

TG50H - Circuit Diagram



DELIVERY CONNECTION

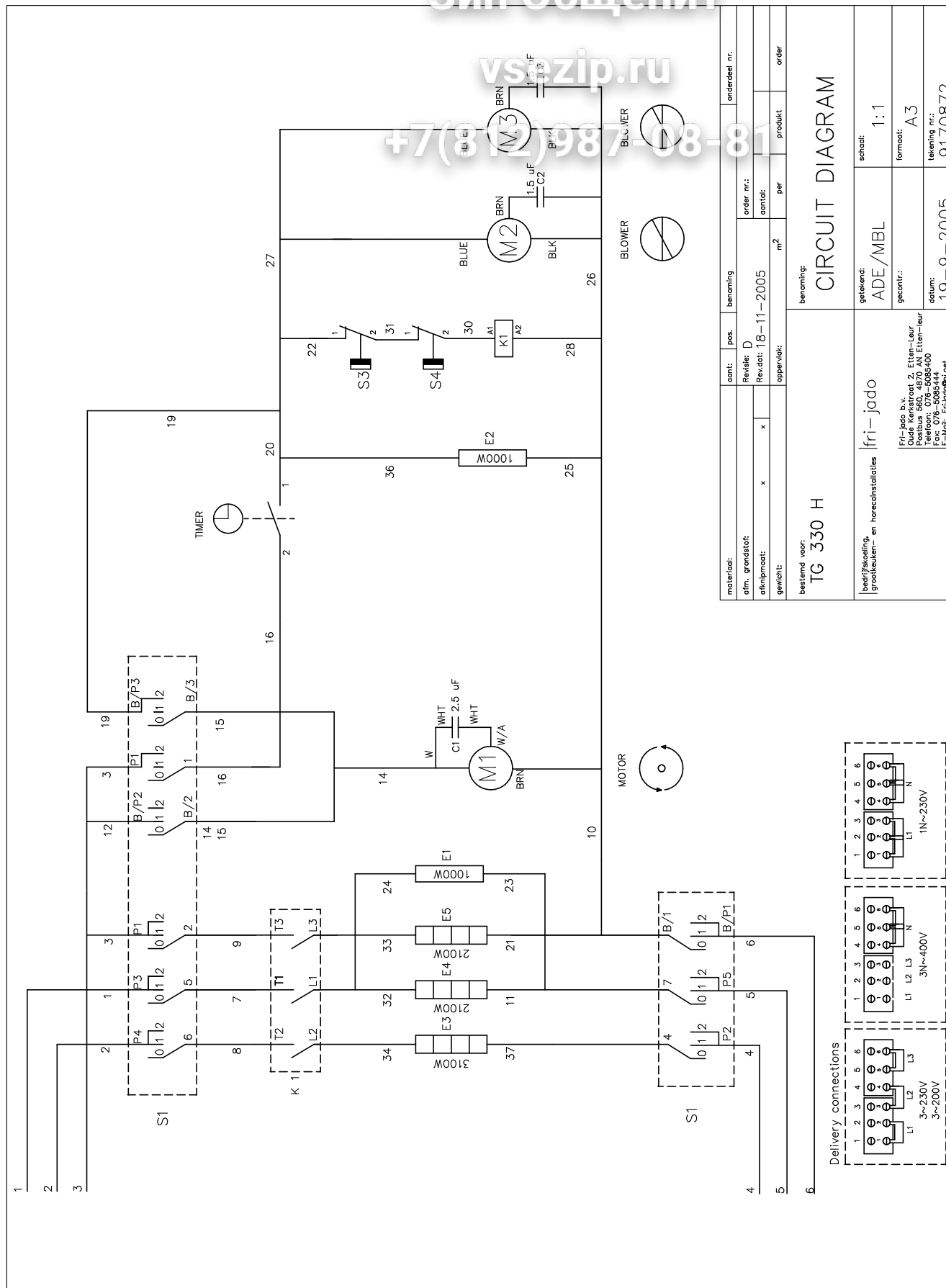


|                                                                                                                                                           |                    |                |               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------|---------------|
| materiadi:                                                                                                                                                | pos.               | benaming       | oetendeer nr. |
| afm. grondstof:                                                                                                                                           | Revisie: B         | order nr.:     |               |
| aftepmaat:                                                                                                                                                | Rev.dat: 28-3-2006 | oetendi:       |               |
| gewicht:                                                                                                                                                  | oppervlak:         | per            | order         |
|                                                                                                                                                           |                    | m <sup>2</sup> |               |
| bestemd voor:                                                                                                                                             |                    |                |               |
| TG 110 H                                                                                                                                                  |                    |                |               |
| benaming:                                                                                                                                                 |                    |                |               |
| CIRCUIT DIAGRAM                                                                                                                                           |                    |                |               |
| bedrijfsaandeling:                                                                                                                                        |                    | getekend:      | schali:       |
| bedrijfsaandeling: en horecainstallaties                                                                                                                  |                    | ADE            | 1:1           |
| bedrijfsaandeling: en horecainstallaties                                                                                                                  |                    | geconfr.:      | formaat:      |
| fri-jado                                                                                                                                                  |                    |                | A3            |
| Fri-jado b.v.<br>Oude Kerkstraat 2, Etten-Leur<br>Postbus 560, 4870 AN Etten-Leur<br>Telefoon: 076-5085440<br>Fax: 076-5085444<br>E-Mail: FriJado@fri.net |                    | datum:         | tekening nr.: |
|                                                                                                                                                           |                    | 02-09-2005     | 9170870       |

TG110H - Circuit Diagram

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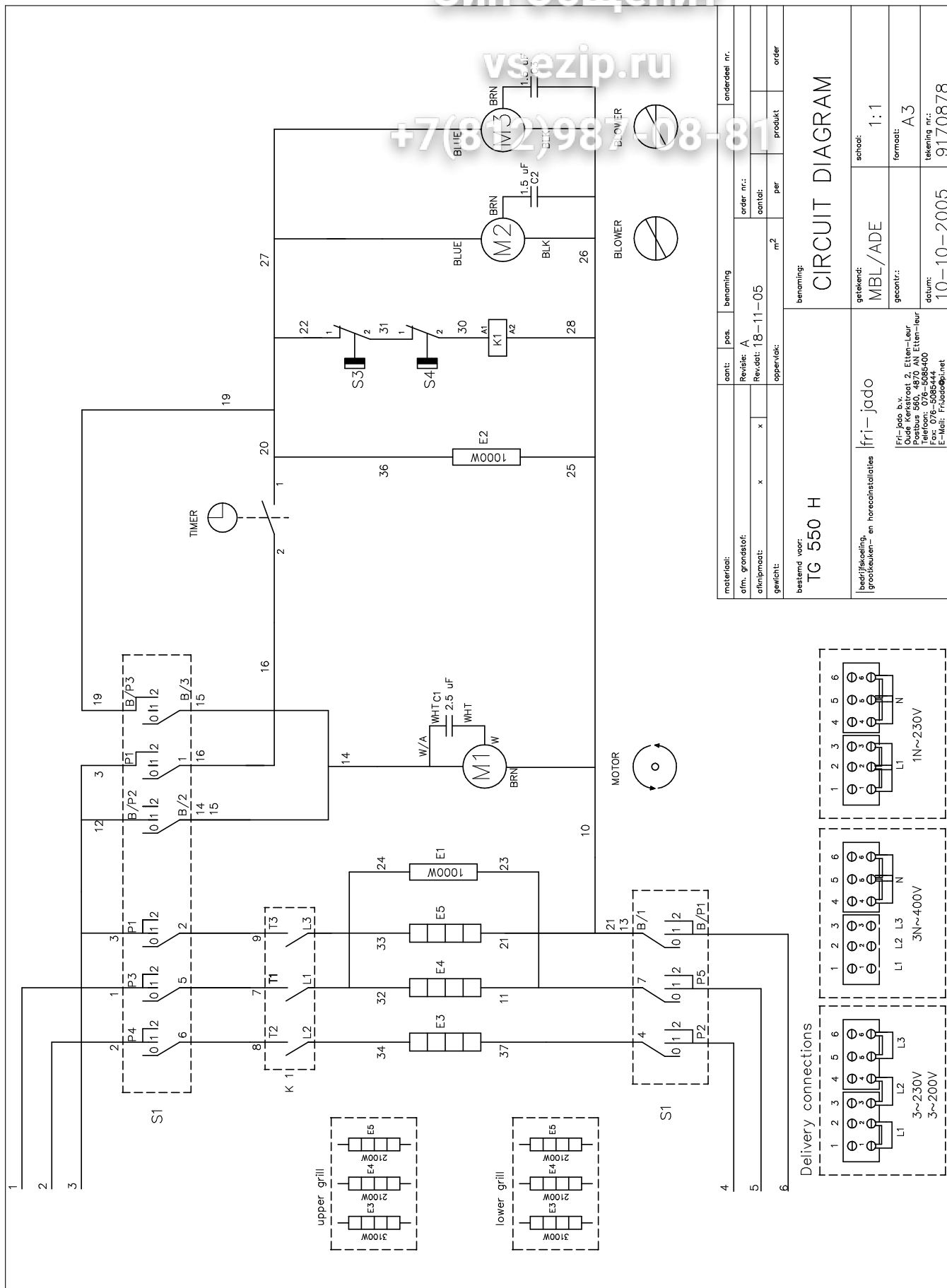


|                                                                                                                                                     |           |                |            |                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------|------------|-----------------------|
| material:                                                                                                                                           | aant:     | pos:           | benaming:  | onderdeel nr.         |
| afm. grondstof:                                                                                                                                     | Revizie:  | D              | order nr.: |                       |
| afn. maat:                                                                                                                                          | Rev.dat:  | 18-11-2005     | aantal:    |                       |
| geleedt:                                                                                                                                            | x         | x              | per        | product               |
| bestemd voor:                                                                                                                                       | apparaat: | m <sup>2</sup> | order      |                       |
| TG 330 H                                                                                                                                            |           |                |            |                       |
| CIRCUIT DIAGRAM                                                                                                                                     |           |                |            |                       |
| bedrijfsaandrijving, grootkeuken- en horecainstallaties                                                                                             | fri-jado  | getekend:      | ADE/MBL    | schaal: 1:1           |
| Fri-jado b.v.<br>Oude Kerkestraat 2, Etten-Leur<br>Postbus 507, 4860 AN Etten-Leur<br>Tel: 076-5085400<br>Fax: 076-5085444<br>E-Mail: FriJado@pi.nl |           | gecont.:       | A3         | formaat: A3           |
|                                                                                                                                                     |           | datum:         | 19-9-2005  | tekening nr.: 9170872 |

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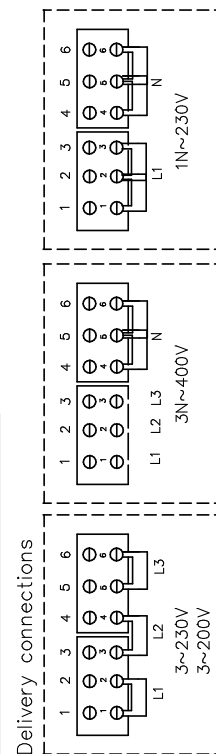
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|                                                       |             |                |            |               |
|-------------------------------------------------------|-------------|----------------|------------|---------------|
| material:                                             | aant:       | pos:           | benaming:  | onderdeel nr. |
| oim. grondstof:                                       | Revisie:    | A              | order nr.: |               |
| afmetingmaat:                                         | Rev.dat:    | 18-11-05       | aantal:    |               |
| gewicht:                                              | oppervlakt: | m <sup>2</sup> | per        | order         |
| bestand voor:                                         |             |                |            |               |
| TG 550 H                                              |             |                |            |               |
| CIRCUIT DIAGRAM                                       |             |                |            |               |
| bedrijfsaandeling, grootkeuken- en horecainstallaties | fri-jado    | getekend:      | MBL/ADE    | schaal:       |
|                                                       |             | geconfr.:      |            | 1:1           |
|                                                       |             | datum:         | 10-10-2005 | tekening nr.: |
|                                                       |             |                |            | 9170878       |

TG550H - Circuit Diagram



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