Зип Общенит SERVICE МАЛИАL +7(812)987-08-81

TDR P eco- ROTISSERIE OVEN MODELS TDW - WARMER MODELS



- 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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	Versions							
Version	Issue date	Remarks						
	dd/mm/yy	vsezipard						
07/2012	01/07/2012	First release.						
02/2013	01/02/2013	TDW 5 and 8 added. Small adjustments.						
05/2013	01/05/2013	TDR 5 and TDW 5 deeper version added as standard. Small adjust-						
		ments.						
09/2013	30/09/2013	Sizes for TDR 5 adapted in Technical data						
01/2014	01/01/2014	Small textual changes. Exploded views and trouble shooting modi-						
		fied. Error 55 explanation added.						
10/2014	01/10/2014	New bracket sensors, new errors, various updates.						



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GENERAL TECHNICAL DATA

ЗИП ООЩЕПИТ GENERAL TECHNICAL DATA

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This manual covers the TDR P ^{eco} series rotisserie ovens and the TDW series warmers. Ovens and warming cabinets come in two sizes. Over s and cabinets will also be delivered in stacked versions.

- TDR 5 Oven with five spits (15 to 20 chickens)
- TDR 8 Oven with eight spits (32 to 40 chickens)
- TDW 5 Warming cabinet for 25 to 30 chickens
- TDW 8 Warming cabinet for 35 to 40 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

-	7005					
Туре	IDR 5	IDRW 5	IDR 8	IDRW 8	IDW 5	IDW 8
Power (W)	6600	9400	10500	14000	2800	3500
Fuses needed with power connec- tion 400 V, 3N ~5060 Hz (3 phases with zero)	3x 16 A	3x 16 A	3x 16 A	3x 32 A	-	-
Fuses needed with power connec- tion 200 or 230 V, 3 ~5060 Hz (3 phases without zero)	3x 20A	3x 32 A	3x 32 A	3x 35 A	-	-
Fuses needed with power connec- tion 230 V, 1N ~5060 Hz (1 phase with zero)	-	-	-	-	1x 16 A	1x 16 A
Standard plug from factory 5-pole Acc IEC309 and CEE-form	16 A 3P+N+E	16 A 3P+N+E	16 A 3P+N+E	32 A 3P+N+E	-	-
Standard plug from factory single pole	_	_	_	_	2-pole earthed plug 16 A	2-pole earthed plug 16 A
Net weight (kg)	130	235	185	340	100	150
Gross weight (kg)	160	275	216	390	120	176
Height (mm)	910	1790	1065	2095	910	1065
Width (mm)	835	835	995	995	835	995
Depth (mm)	710	710	830	830	710	830

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

PROGRAMMING INSTRUCTIONS

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PROGRAMMING INSTRUCTIONS FOR THE TDR 5 - 8 P AND TDW 5 - 8

Зип Общепит



Кеу	Function
On / Off	Switching the unit On / Off
Undo	Go back to previous menu
List	Recipe / programming modus
Forward	One step ahead in setting
Rotor	Switching the rotor on
ОК	Acknowledge a function or change
Back	One step back in setting

0 = Off 1 = 25°C / 77°F 2 = 40°C / 104°F 3 = 60°C / 140°F 4 = 80°C / 176°F 5 = 95°C / 203°F

OPERATING PANEL WARMER





PROGRAMMING INSTRUCTIONS

<u>Зип Общепит</u>

OPERATION

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5. OPERATION



Buttons are lit when functional.

5.1. Operation of the rotisserie





Interface P Eco TDR Version x.x.x





Chicken 98 99 **1** 2 3





- 1. Press Start.
- 2. Display shows Fri-Jado logo.

08-81

- 3. Display shows software version.
- 4. Display shows latest cooking program.
- 5. Use the arrow buttons for program selection.
- 6. Display shows selected program.
- 7. Confirm the selected program.
- Display shows pre-heat (only when pre-heat is defined).





ОРЕГАТІОN OPTIONS

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- 5.2. Operation options
- 5.2.1. To end a running program.







Chicken				
98 99	1	2	3	

5.2.2. Check the actual temperature



1. Press and hold start for 3 seconds.

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2. Make a choice with the arrow buttons.

Note: Select NO to abort ending the program.

- 3. Confirm the selection. (Within 5 seconds).
- 4. Display shows the last operated program.

- For example: Check the current temperature in program 1 Chicken, step 1.
- 2. Press the OK button.
- 3. The display shows during 3 seconds the actual temperature.

PROGRAMMING INSTRUCTIONS



5.2.3. Check the remaining time in a program



5.2.4. Show all actual program information



- 1. Display shows actual program. (step one is active).
- 2. Press List button.
- 3. Display shows the programmed temperature and time.
- 4. Press List button again for additional information.
- Display shows the programmed steps and remaining times in one overview.
 (Step – temperature – program time – actual time)
 - P: Preheat
 - 1-3: Program step
 - H: Holding
 - C: Cook correction



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6. Press th 812)9 scieen (automa seconds

Press the OK button to update the screen (automatically refreshed every 15 seconds).

- 7. Press List button to go back.
- 8. Display returns to the original operating display.

5.2.5. Eco function

1 Chicken

180°C P123

1 Chicken	ECO
180°C P <u>1</u> 23	0:20

0:20

Optional: only available when activated in the service menu.

In the ECO mode the accumulated heat in the cavity will be used to cook the product.

Depending on the settings, the product and program an energy saving of 5% can be achieved.

5.2.6. Cook correction



Optional: only available when activated in the service menu.

Cook correction: Depending on the load of products the cooking time will be automatically adjusted.

The first cook is the reference cook and will be used to fix the correct parameters.

The activation of the cook correction is NOT visible in this display.



ВИП ОБЩЕПИТ PROGRAMMING

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6. MANAGER MENU

6.1. Manager menu items -08-81 **Parameters** Change pin Programming New Pre-Heat Clock Edit Preheat temperature Transfer Delete Holding Version Copy Holding temperature USB Cook correction* Reading recipes Eco function* Store recipes Language **Big digits** Sound preheat Sound step Sound done

* Only visible when selected in the service menu.

6.2. Programming the rotisserie

Possible programming steps:

- Preheat
- Step 1
- Step 2
- Step 3
- Holding





Interface P Eco TDR Version x.x.x

Drumstick 5 6 **7** 8 9



- 1. Start the unit.
- 2. Logo appears.
- 3. Unit information appears.
- 4. Last used program appears.
- 5. Press the list button.

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PROGRAMMING INSTRUCTIONS





Preheat functions:

- Y: Yes
- N: No
- C: Continuously







32. Press the OK button to confirm.

33. Set the second digit.

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10 Step 1 Temp 215 °C Time 21 -



10 Step 1 Temp 215 °C Time 210



10 Step 1 Temp 215 °C Time 210 \leftarrow \checkmark \checkmark \checkmark

10 Step 2 Temp <u>2</u>15 °C

10 Holding Temp <u>8</u>5 °C Time 999 ← ✓ 34. Press the OK button to confirm.

35. Set the last digit.

36. Press the OK button to confirm.

37. The Step is now completed.

Select the right arrow and press the OK button to go to the next step. Select the left arrow button and press the OK button to go back to the last setting. Select the \vee and press the OK button to finish programming.

- Program the next step (when required). See step 1 for the procedure.
- 39. After step 3 or when entering no time at step 2 (or 3) the holding step will appear. Set the temperature and time as required.

Note:

Set the time to 999 for continuous operating.

Only available when activated (refer to section 6.3).





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Language: Engl Change Next P	ish Previous F7(8	9. Use th Chang Press menu.	back to enter the manager	
Save parameters? Save	Disc.	10. Use the Save and This is valid or higher. Note: whe changes we back to st	ne arrow buttons to select press the OK button to confirm. d for software version V1.04-09 en you select the Undo key the vill not be saved and you go ep 4.	
		10a. Until had to pre	l software version V1.03.10 you ess the undo key to go to save.	Ð
		11. Use th other s	e arrow buttons to select the settings:	
Big Digits	YES/NO:		Default set at YES	
Sound preheat	Sound T1-T3 Volume 1-4		Default set at T1 Default set at 2	
Sound Step	Sound T1-T3 Volume 1-4		Default set at T2 Default set at 1	
Sound Done	Sound T1-T3 Volume 1-4		Default set at T3 Default set at 3	
Preheat	YES/NO:		Default set at NO	
Preheat Temperature	50-250 °C (122-482 °F)		Default set at 210°C (410°F)	
Holding	YES/NO:		Default set at YES	
Holding Temperature	50-250 °C (122-482 °	°F)	Default set at 85°C (185°F)	
Cook correction	YES/NO:		Default set at YES	
Eco function	YES/NO:		Default set at YES	





Press back to enter the manager menu.

Press (again) back to enter the user menu.

MANAGER MENU: CHANGE PINCODE

6.4. Change pin code

MANAGER MENU Para Change Pin Clock

Pin <u>0</u> 0 0 0 Enter new code

6.5. Clock



SET TIME

12..

6.6. Transfer



Insert stick and press enter

6.7. Version

Interface P Eco TDR Version x.x.x vsezip.ru

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1. Manager menu.

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- 2. Select Change Pin.
- 3. Press the OK button.
- 4. Enter the new pin code.
- 5. Press the OK button.

- 1. Manager menu.
- 2. Select Clock.
- 3. Press the OK button.
- 4. Set the correct date and time.
- 5. Press the OK button.

- 1. Manager menu.
- 2. Select Transfer.
- 3. Press the OK button.
- 4. Insert stick and press OK.

1. Display shows software version.



PROGRAMMING INSTRUCTIONS

ющенит **OPTIONS MANAGER MENU: USB**





Note: When reading new programs all existing programs will be deleted.

THE AUTOMATIC COOK CORRECTION

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The automatic cook correction facility will automaticly add or deduct time to the pro grammed cooking time in order to have constant cooking quality.

After programming a new program, the first cooking process will be the "learning" process. It is recommended to do the first cook with a half load.

The program calculates the surface from the diagram below the curved line. (temperature * time). The result is the so called heat num ber. This heat number is stored into the cook ing program.

All further cooking programs will try to get the same heat number.

The second diagram shows an example with full load. It takes more time for the unit to reach the programmed cooking temperature. See dashed line. The surface above the dashed line represents the missing part of the heat number. The cook correction will put this miss ing part behind the normal cooking time. Therefore extra time is added in order to reach the desired heat number. It is also possible that time is deducted in case a smaller load has been put into the oven.

Time will be added in case of:

A bigger load. A colder load. (straight from the freezer). A lower mains voltage. Somebody opened the door.

Time will be deducted in case of:

A smaller load. A warmer load. (defrosted) A higher mains voltage.

Note 1:

In case the time or temperature will be changed in the cooking program, the heat number will be adapted with this amount.

Note 2: Only if you delete a program or change the name the "learning" process starts again from the beginning.



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The heat number is stored in the cooking program. In case such a program is copied and stored in another rotisserie, the heat number goes with it.

It is possible that in case the program has changed a lot, the cook correction is not able to perform well anymore. In that case the program has to be deleted and repro grammed with the good parameters. It is possible to disable this cook cor rection feature in the service parameters. See "parameter listings" -> "cook correction". REMOVAL AND REPLACEMENT OF PARTS

Зип Общепит

REMOVAL AND REPLACEMENT OF PARTS FOR THE TDR 5 AND TDR 8

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



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

TOP COVER

OPERATING PANEL (GENERAL)



- Remove the right side panel according prior procedure.
- 2. Remove the screws securing both large and small top covers.
- 3. Remove the top cover. (Lift at right side and remove to the left).
- 4. Reverse the procedure to install.



- 1. Remove the right side panel according prior procedures
- 2. Remove the bolt, nut and ring on the top side on the backside of the operating panel.
- 3. Pull the panel away from the top side.
- 4. Remove the flatcables and earth cable from the CPU board on the backside.
- 5. Remove the panel.
- 6. Reverse the procedure to install.

ЕLECTRIC PANEL

1. Kemove the right side panel according prior procedure.

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- 2.4Disconnect the wiring.
 - Remove on the inside bottom of the electric panel the bolt and nuts.
 - 4. Slide the electric panel upwards to remove this.
 - 5. Reverse the procedure to install.

REPLACING A LAMP



OPERATING PANEL, GLASS + BACKPLATE + KEYPAD



- 1. Remove the right hand panel according prior procedure.
- 2. Remove the operating panel according prior procedure.
- 3. Remove the 4 nuts and rings on the CPU board and remove the board.
- 4. Replace the USB connection from old to new operating panel.
- 5. Reverse the procedure to install.

Note 1: For connection flatcable of the keypads see CPU board on page 28.

Note 2: For older units with earth wire in right hand bottom corner. Take care that the ring terminal doesn't make contact with with the solder point (see arrow) .Otherwise the illumination of the display and keys can be out.







CPU BOARD

ЗИП Общения POWER AND I/O BOARD



- 1. Semove the right side panel according prior procedure.
- 2. Disconnect he viring and flatcable on the board.
- 3. Remove the board from the clips by pressing the clips together.
- 4. Reverse the procedure to install.









Before changing the CPU board and display be sure to download (with a USB stick) or write down the grilling programs and the parame ters.

- 1. Remove the right side panel according prior procedure.
- 2. Remove the operating panel according prior procedure.
- 3. Remove the 4 nuts and rings on the CPU board and remove the board.
- 4. Reverse the procedure to install.
- 5. Read the grilling programs and parameters from the USB stick to the CPU board.

Note 1: Flatcable keypad must be connected to connector "Touchpanel 1" on CPU board.

Note 2: "Touchpanel 2" is flatcable connection for the rotor switch keypad on customer side.

Note 3: For older units with earth wire in right hand bottom corner. Take care that the ring terminal doesn't make contact with with the solder point (see arrow) .Otherwise the il-lumination of the display and keys can be out.

REPLACING OF BROKEN BUZZER



15 Remove the right side panel according prior procedure.

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- 2 Remove the operating panel according prior procedure.
 - 3. Stick connector of new buzzer in plug next to the existing broken buzzer (see white arrow).
 - 4. Reverse the procedure to install.

Note: buzzer can dangle loosely without any problem.

KEYPAD



- Remove the right side panel, the operating panel and the CPU board according prior procedures.
- 2. Remove the keypad and degrease the surface of the glass.
- 3. Glue the new keypad on its place with the red colored connectors on the bottom side.
- 4. Reverse the procedure to install.

Note 1: For connection flatcable of the keypads see CPU board on page 28.

Note 2: When the keypad is on the panel on customer side you need a long extended flatcable for connection to the CPU board.

INFRA-RED HALOGEN LAMP HOLDER











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.

- Remove the bolts that secure the protection guard of the Halogen lamp and remove the guard.
- 2. Push the lamp to either side and pull it down to remove the lamp.
- 3. Remove the top cover according prior procedure.
- 4. Disconnect the wiring on the terminal block.
- 5. Remove the insulation above the light fixture.
- 6. Remove the screws that secure the lamp holder and remove the holder from the inside.
- 7. Reverse the procedure to install.

Note 1: Be sure that the "drop" on the lamp is pointing downwards.

Note 2: Check the lamp reflecting shield and replace this if corroded.

INFRA-RED HALOGEN LAMP HOLDER BOTTOM ROTISSERIE (STACKED TDR 8)















Var. ing. When changing the lamp holder for the TDR 5, the top rotisserie has to be removed. 987 - 08 - 81

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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.

- 1. Remove the bolts that secure the protection guard of the Halogen lamp and remove the guard.
- 2. Push the lamp to either side and pull it down to remove the lamp.
- 3. Remove the fat drawer and the drip trays from the upper oven.
- 4. Remove the bolts that secure the intermediate plate and remove this plate.
- 5. Cut the sealant around the bottom plate and remove this plate (see arrow).
- 6. Knock out the access plate to the light fixture and remove this plate.
- 7. Disconnect the wiring on the terminal block.
- 8. Remove the insulation above the light fixture.
- Remove the screws that secure the lamp holder and remove the holder from the inside.
- 10. Reverse the procedure to install.

Note 1: Be sure that the "drop" on the lamp is pointing downwards.

Note 2: Clean all surfaces that have to be sealed. Seal off the bottom plate with a grease resistant sealant.

Note 3: Check the lamp reflecting shield and replace this if corroded.

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REMOVAL AND REPLACEMENT OF PARTS

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CONTACTOR

- 1. Remove the right side panel according prior procedure.
- 2. Disconnect the lead wires to the contactor.
- 3. Push on the locking tab down with a screw driver and lift out to remove it from the mounting bracket.
- 4. Reverse the procedure to install.

RELAY FOR THERMISTOR FUNCTION BLOWER (FROM SER.NR. 100067527)



- Remove the right side panel according prior procedure.
- 2. Loosen the clamp handle.
- 3. Gently remove the relay.
- 4. Reverse the procedure to install.

Note: When placing a relay be sure the connecting pins are in place.







DOOR SWITCH

- 1. Remove the right side panel and the operation panel according prior procedures.
- 2. Remove the 2 screws that secure the switch and remove the switch.
- 3. Disconnect the wiring of the switch.
- 4. Reverse the procedure to install.

Note: The contact pin of the switch must run free through the chassis.

ющепит **HIGH LIMIT THERMOSTAT**







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- 1. Remove the right side panel according prior procedure.
- 2. Remove the fan plate on the ceiling on the inside of the oven (this is only to check if the probe is on the right place).

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- 3. Remove the thermostat probe from the clip and remove the probe.
- 4. Remove the screws on the electric panel that secure the thermostat.
- 5. Remove the thermostat and disconnect the wiring.
- 6. Reverse the procedure to install.

Note 1: The probe sticks out of the side wall till the end of the bracket. Note 2: Set the new high limit thermostat to its maximum position (see arrow).

Note 3: The versions until serial nr. 100067092 have different brackets. The latest bracket is the preferred one.



PT 1000 SENSOR

- 1. Remove the right side panel and the fan plate on the inside of the oven according prior procedures.
- 2. Disconnect the wiring of the sensor.
- Reverse the procedure to install.

Note 1: The probe sticks out of the side wall till the end of the bracket.

Note 2: The versions until serial nr. 100067092 have different brackets. The latest bracket is the preferred one.







В SUD OCHERINT













- 15 Service the right side panel and the top cover according to prior procedures.
- 2. Remove the rotor discs and the fan plate on the ceiling inside the oven.
- Remove the nut and washer on the fan blade and remove the fan blade with the help of the puller.
- Remove the 3 screws that secure the shaft seal plate. Now replace the shaft seal and shaft seal plate.
- 5. Disconnect the connector of the motor wiring and also the grounding wire.
- 6. Remove the nuts that secure the motor and remove the motor.
- 7. Remove the wiring of the capacitor and change the capacitor.
- 8. Reverse the procedure to install.

Note 1: The puller is delivered with each new blower.

Note 2: The blower is equipped with a capacitor of 6 uF. Check the direction of rotation of the motor (clockwise, see arrow).

Note 3: In the versions until 01-07-2012 a 3-pole connector is used. The new blowers have a 5-pole connector. Therefore with all new blowers a adapter connector is supplied.



BLOWER MOTOR BOTTOM ROTISSERIE (STACKED TDR)

















 Remove the right side panel according prior procedures.

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- 2 Remove the rotor discs and the fan plate on the ceiling inside the oven in the bottom oven.
- Remove the nut and washer on the fan blade and remove the fan blade with the help of the puller.
- 4. Remove the 3 screws that secure the shaft seal plate. Now replace the shaft seal and shaft seal plate.
- 5. Remove the fat drawer and the drip trays from the upper oven.
- 6. Remove the bolts that secure the intermediate plate and remove this plate.
- 7. Cut the sealant around the bottom plate and remove this plate (see arrow).
- 8. Disconnect the connector of the motor wiring and also the grounding wire.
- 9. Remove the nuts that secure the motor and remove the motor.
- 10. Remove the wiring of the capacitor and change the capacitor.
- 11. Reverse the procedure to install.

Note 1: The puller is delivered with each new blower.

Note 2: The blower is equipped with a capacitor of 6 uF. Check the direction of rotation of the motor (clockwise, see arrow).

Note 3: Clean all surfaces that have to be sealed. Seal off the bottom plate with a grease resistant sealant.

Note 4: In the versions until 01-07-2012 a 3-pole connector is used. The new blowers have a 5-pole connector. Therefore with all new blowers a adapter connector is supplied.

ЗИП Общепит DRIVE MOTOR







- VIS Remove the right side panel and rotor discs according prior procedure.
- 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. Note down how far the drive arm or drive block sticks out from the inner wall (see white or black arrow).
 - 5. (TDR 5 only) Remove the nuts that secure the motor and remove the motor.
 - 6. (TDR 7 only) Set the drive arm in a position vertical downwards. This can be done manually or by turning the fan blade by hand.
 - 7. Mark the position of the motor support with a marker.
 - Remove the bolts that secure the motor and the nuts that secure the motor support and remove the motor.
 - 9. Check the white Teflon ring. Replace this if necessary.
 - Check the position of the red gasket between motor support and the side wall. Replace this if necessary.
 - 11. Install the fan blade on the new motor.
 - 12. Reverse the procedure to install.

Note: Always make a test run of 15 minutes on maximum temperature to ensure the motor is well mounted and adjusted and turns parallel to the side wall.
ВИП ОБЩЕПИТ HEATING ELEMENT











Remove the right side panel, the top cover and the fan plate according prior
 procedures. 8 – 8 1

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- 2. Remove the nut(s) on the inside top that fastens the element to the top side.
- 3. Disconnect the wiring from the element.
- Cut the insulation on the top side around the fastening plate of the elements and remove the insulation.
- Remove the nuts that secure the element and remove the element and the gasket. Gasket has to be replaced.
- 6. Reverse the procedure to install.

DOOR ADJUSTMENT (LEFT SIDE)



- 1. Remove the left side panel according prior procedure.
- 2. Loosen the nuts A of the upper hinge. The door must be closed.
- 3. Loosen the locknut B and adjust the bolt C in or out to adjust the door.
- 4. Tighten the nuts of the hinge and mount the left-hand panel.

ЗИП ООЩЕПИТ DOOR GLASS INSIDE



- VSIC Lift the inside door upward out of the hinges and place it on a table.
 - 2. Remove the nuts and rings on the profiles of the door.
 - 3. Remove the profiles from the glass.
 - Mount the profiles on the new glass.
 Do not forget the Teflon flange bushes inside the holes.
 - 5. Mount the nuts and rings.
 - 6. Place the door in the hinges.

Note: Tightening of nuts max. 8 Nm.

DOOR OUTSIDE

- Lift the inner door out of the hinges and lay this aside.
- 2. Remove the left side panel according prior procedure.
- Remove the 2 nuts behind the upper hinge and loosen the locknut according prior procedure. The door must be closed.
- Hold the door on both sides and move this towards yourself, before lifting it out of the hinge on the bottom side. See to it that the washers stay on the hinge. Also remove the top hinge.
- 5. Place the top hinge on the new door.
- 6. Place the new door on the hinge on the bottom side and push the 2 studs on the top hinge through the openings on the top side and screw the nuts on it .
- 7. Adjust the door according prior procedure.

Note: Tightening of nuts max. 8 Nm. or 5.9 lbf.ft



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REMOVAL AND REPLACEMENT OF PARTS FOR THE TDW 5 AND TDW 8

зип Общепит

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.





BLOWER MOTOR

- 1. Remove the right side panel according prior procedure.
- 2. Remove the racks and bottom plate.
- 3. Remove the cap nuts that secure the fan plate and remove fan plate.
- Remove the wing nut on the fan blade and remove fan blade. Left handed threads.
- 5. Disconnect wiring of the motor.
- 6. Remove the screws that secure the motor and remove the motor.
- 7. Reverse the procedure to install.

Note: The blowers are equipped with a capacitor of 1,5 uF. Check the direction of rotation of the motor (clockwise, see arrow) and change the wiring if necessary.

THERMOMETER





Battery

- 1. Remove the right side panel and the fan plate according prior procedures.
- 2. Remove the thermometer probe from the clamp inside the cavity and guide it outside through the opening.
- 3. Remove the thermometer by pushing the clamps "in" on both sides.
- 4. Reverse the procedure to install.

Note: When there is no indication on the dis play of the thermometer, the battery could be empty and has to be replaced.



ЗИП ООЩЕПИТ THERMOSTAT

vsezip.ru

- F7(8) Tabs
- 1 Perrove the right side panel and the fan plate according prior procedures.
- 2. Remove the thermostat probe from the clamp inside the cavity (see arrow) and guide it outside through the opening.
- 3. Disconnect the wiring from the thermostat.
- 4. Remove the thermostat from the main switch by squeezing the tabs and pull the thermostat away.
- 5. Reverse the procedure to install.



MAIN SWITCH

- 1. Remove the right side panel according prior procedure.
- 2. Remove the knob according prior procedure.
- 3. Remove the screws, on the frontside of the operating panel, that secure the main switch and remove the switch.
- 4. Disconnect the wiring from the switch.
- 5. Remove the thermostat from the main switch according prior procedure.
- 6. Reverse the procedure to install.







ВИП Общепит HEATING ELEMENT



bottom plate and the fan plate according

- 2. Disconnect the wiring from the element.
- 3. Remove the nuts and rings that secure the element and remove the element.
- 4. Reverse the procedure to install.



HALOTHERM LAMP





- 1. Remove the bolts of the protection guard.
- 2. Push the lamp to either side and pull it down to remove the lamp.
- Insert one end of the new lamp in the socket and push it in. Align the other end of the lamp with the socket and allow the spring tension to push the lamp in place.
- 4. Replace the protection guard.

Note: Be sure that the "drop" on the lamp is pointing downwards.

PARAMETERS

PARAMETER LISTING TDR P

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ип Общепит

08-81

This chapter contains an explanation and listing of the parameters for the P-control system of the TDR. The first section contains explanations for every parameter. The sections after that contain instructions and a parameter table for the TDR P.

The P-control system has 2 seperate parameter sections, one titled "Manager" and one titled "Service". The manager parameters are protected with a standard password "1111". The manager can also protect this with his own 4-digits password.

The service section is only accesible for qualified service technicians.

The start up screen lists general information such as software version number, model name and Fri-Jado company logo.

Please make sure you read the paragraph titled "adapting parameters" before changing parameters. It contains some important information concerning the programming of the parameters.



REACHING THE PARAMETER MENUS

To reach the Manager parameter menu, press the "list" key and enter with the standard password **"1111"** (if not protected by a specific Manager password).

To reach the Service menu press and hold the "UNDO" key for 5 seconds and enter with the password "**4878**".

To leave a section use the UNDO key.

Note 1: The service section is by default protected with a default password **"4878"**.

Note 2: The manager section can be protected by a seperate password, this password can be set inside the manager menu. It is possible to read this password through the service menu in the User PIN parameter.



ЗИП Общепит OPTIONS MANAGER MENU

To enter the manager menu press and hold the Sistkey. The manager section can be protected by a seperate password. The standard number is **"1111"**, This password can be changed inside the manager menu.



OPTIONS SERVICE MENU

To enter the service menu press and hold the UNDO key for 5 seconds. The service section is by default protected with a default password of **"4878"**.



PARAMETERS

ЗИП Общепит MANAGER MENU - DESCRIPTION OF THE SUBMENUS

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Menu section: Manager menu		
Parameter	Description	
USB	In this menu you can read recipies from the USB stick to the CPU board, or store programs from the CPU to the USB stick.	
Programming	In this menu you can process the cooking programs. You can make a new program or edit, delete or copy an existing program.	
Parameters	In this menu you can view or change all manager parameters. Note: when changing a parameter in this manager menu, this will automatically be changed also in the service menu. For an overview of the parameters see parameter list manager menu.	
Change pin	In this menu you can change the manager pincode.	
Clock	In this menu you can set the time and the time format (12/24h clock).	
Transfer	In this menu you can store log data on the USB stick. These are 2 separate files. One with a error overview and the second with all parameter settings.	

Parameter list Manager menu		
Parameter	Description	
Language	This parameter allows the setting of the language of the different texts used by the unit. Note that some texts may not yet have an updated translation.	
Big digits	This parameter allows to choose for big digits on the display during preheat, cooking and hold cycle.	
Preheat allowed	This parameter allows the enabeling of preheating before a recipe. If "yes" is selected, every program can have a preheat step included, you have a choice in this. If "no" is selected preheating is not possible, even if there is a program with a preheat step.	
Holding allowed	This parameter allows the enabeling of a warm hold step at the end of the grilling step(s). If "yes" is selected every program can have a holding step included, you have a choice in this. If "no" is selected holding is not possible, even if there is a program with a holding step.	
Preheat tempera- ture	This parameter allows the programming of a general preheat temperature. Note: this preheat temperature is suggested and can be overwritten in the programs.	
Holding tempera- ture	This parameter allows the programming of a general holding temperature. Note: this holding temperature is suggested and can be overwritten in the programs.	
Sound preheat T1	This parameter allows to set an alarm sound at the end of the preheat step. You can choose 3 different sounds (T1-T2-T3) and the level of the sound (up to 4 white blocks) or no sound (no white block).	
Sound step T2	This parameter allows to set an alarm sound at the end of the first grilling step. You can choose 3 different sounds (T1-T2-T3) and the level of the sound (up to 4 white blocks) or no sound (no white block).	
Sound done T3	This parameter allows to set an alarm sound at the end of the grilling step(s). You can choose 3 different sounds (T1-T2-T3) and the level of the sound (up to 4 white blocks) or no sound (no white block).	



Зип Общепит SERVICE MENU - DESCRIPTION OF THE SUBMENUS

Menu section: Service menu		
Parameter	Description	
USB	In this menu you can read recipies from the USB stick to the CPU board. And you can store recipies, parameters and LOG data to the USB stick.	
Function	This menu allows access to the I/O test screen, Through this, several inputs and outputs of the machine can be monitored and toggled. You can also test the keypad.	
Parameters	In this menu you can view or change all service parameters. Note: when changing a parameter in this service menu, this will automatically be changed also in the manager menu. For an overview of the parameters see parameter list service menu.	
Clock	In this menu you can set the time and the time format (12/24h clock).	
Counter	In this menu you can view the total working hours of the fan, gearbox and heaters. After repalcing one of these parts you have to set the counter on zero again.	
Operation	In this menu you can view the total hours of operation. This value is not resettable.	
User pin	In this menu you can view the current set pincode. This code can only be viewed and not changed.	
Fault	In this menu you can view all occurred errors and, if applied, in what cooking program.	
Test program	In this menu you can start a test program. This fixed program has one cooking step of 250°C for 20 minutes and a holding program of 85°C and 10 minutes.	
Set demo on	In this menu you can set the machine into a demonstration mode. In demonstration mode the machine will not turn the heating elements on and will simulate the machine heating up only through software.	

Parameter list Service menu		
Parameter	Description	
Language	This parameter allows the setting of the language of the different texts used by the unit. Note that some texts may not yet have an updated translation.	
Big digits	This parameter allows to choose for big digits on the display during preheat, cooking and hold cycle.	
Preheat allowed	This parameter allows the enabeling of preheating before a recipe. If "yes" is selected, every program can have a preheat step included, you have a choice in this. If "no" is selected preheating is not possible, even if there is a program with a preheat step.	
Holding allowed	This parameter allows the enabeling of a warm hold step at the end of the grilling step(s). If "yes" is selected every program can have a holding step included, you have a choice in this. If "no" is selected holding is not possible, even if there is a program with a holding step.	
Preheat tem- perature	This parameter allows the programming of a general preheat temperature. Note: this preheat temperature is suggested and can be overwritten in the programs.	
Holding tem- perature	This parameter allows the programming of a general holding temperature. Note: this holding temperature is suggested and can be overwritten in the programs.	
Sound preheat T1	This parameter allows to set an alarm sound at the end of the preheat step. You can choose 3 different sounds (T1-T2-T3) and the level of the sound (up to 4 white blocks) or no sound (no white block).	
Sound step T2	This parameter allows to set an alarm sound at the end of the first grilling step. You can choose 3 different sounds (T1-T2-T3) and the level of the sound (up to 4 white blocks) or no sound (no white block).	
Sound done T3	This parameter allows to set an alarm sound at the end of the grilling step(s). You can choose 3 different sounds (T1-T2-T3) and the level of the sound (up to 4 white blocks) or no sound (no white block).	
Temp. unit	This parameter allows the switching between showing degrees either in Celcius (°C) or Fahrenheit (°F). Changing the parameter affects all values directly and no restart of the machine is equired.	

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PARAMETERS

	Parameter list Service menu
Parameter	Description
Ecocook allowed	This parameter alows the ecocook to be activated or not. Ecocook on yes means that the accumulated heat in the cavity will be used to cook the product and to save energy. Heat- ing elements will not be activated during the last period of the last grilling step.
Ecocook var.	This parameter alows to set the variable of the ecocook. Var. aujustable from 1 to 9. This is the percentage of the total cooking time.
Boost allowed	This parameter allows to add extra cooking time at the end of the grilling cycle. If set on "yes" you can add extra time in minutes.
User PIN in use	This parameter allows free access to the Manager menu if set on "no". Or protected access by means of a pin code if set on "yes". If set on "no" there is no pin code protection for the Manager menu and you have free access to this menu. If set on "yes" the standard Manager pin code is "1111", but can also be changed to another pin code. Note: Always set the pincode back on "yes" after work has ended.
Lights out	This parameter allows the lights to be shut off during opening of the door during stand by position. If set on "no" the lights will go on for 20 seconds.
key beep	This parameter allows to set a beep sound when a key is touched. If set on "off" the beep sound will be off.
Temp. offset	This parameter allows to set an offset in the temp. regulation. For example: if temp. is set on 200°C and offset on -20°C the software regulates the temp. on 220°C, so a real higher operating temp. The actual temperature is indicating 20°C lower than it really is. The set temperature of 200°C will be indicated on the display. Offset can be adjusted on ± 59,9°C.
Cook correction allowed	This parameter allows a cooking time that automatically will be adjusted depending on the load of products. The first cook is the reference cook and will be used to fix the correct parameters. The activation of the cook correction is not visible in the display.
Key sens	This parameter allows the adjustment of the sensitivity of the keys. Sensitivity is highest on value 1 and lowest on 9.
Temp. grad.	This parameter allows the setting of the minimal temperature rise, in °C / 2minutes, of the PT sensor during the preheat, cooking or hold step. This parameter is used for the error 55 test. In this test the measuring only starts 5 minutes after beginning of a heating step. Duration of the test is 5 periods of 2 minutes. Measuring stops at 150°C/302°F or when temp. in the cabinet is < 30°C than the set temperature. When the temperature rise is lower than 0.5°C per 2 minutes during 5 consecutive periods, an "error 55" will be indicated and the machine switches off.
Second display	 This parameter allows the setting of the display on customer side. 0 = Second display has only the rotor function in stand by position. 1 = Second display has only limited functions like viewing during cooking proces. 2 = As 1 + possibility of selection of programs and starting. 3 = Not in use.
Thermistor	This parameter alows the activation of an error on the clixon inside the blower motor. If set on "yes" the clixon is connected, by relay K3, to the input of the CPU board and stops the blower and rotisserie when overheating and indicates an error 66. If set on "no" the clixon is not activated.

Notes:

- After parameter changes have been made in both Manager or Service menu, you have to go to save and press OK key to confirm.
- When parameters, that are both in Manager and Service menu, are changed in one menu they will be also adjusted in the other menu.
- When preheat allowed or holding allowed is set on zero, no preheat or holding will take place even if this is programmed in a recipe.
- When preheat is set in the Manager or Service menu and the recipe itself has no prehat programmed, there will be no preheat in the cooking cycle.
- It is not possible to program only a preheat or hold step, without a cooking step.
- The countdown of the last minute in the cooking cycle is displayed in seconds.



The P-control system utilises a large set of parameters, of these parameters a select group is open to customization. This meaning these parameters can be adjusted to offer functionality more fitting to the intended purpose of the unit.

The manager parameters are open to modification. It is however important to know beforehand what a parameter does before changing it, a detailed description of all parameters can be found earlier in this chapter.

Generally speaking all Service parameters are considered important and should not deviate from the value as listed in the parameter lists found in this document.

When changing the critical service parameters beyond the value listed in this document Fri-Jado cannot guarantee that the unit will function as to be expected.

LOADING SOFTWARE

Software can only be loaded to the CPU board by means of a memory stick. The download is always done out of a folder called "42-P+CPU" (see also explanation updating system. This folder has to be placed direct on the memory stick and cannot be placed in another folder, otherwise it will not work. That means only one folder "42-P+CPU" can be placed direct on the memory stick

To load new software from a memory stick to the CPU board is as follows:

- 1. Disconnect the power.
- 2. Place memory stick in the side wall.
- 3. Put the plug in the socket or switch on the mains supply. Now the new software will be loaded inside the CPU board.
- 4. You will be asked to remove the stick and when done the unit switches on. (the existing parameters will remain).

Updating system software (firmware). Only in case the unit has older software!! This software, supplied by Fri-Jado comes in a "zip" file with the version number of the software, for example "V1_4_09.zip". The file needs to be copied on a USB stick. (disk "USB drive (F:)" in the example).

After unpacking it, the folder named "42-P+CPU" needs to be moved or copied to the root of the USB stick as shown below.

After unpacking.

Move the "42-P+CPU" folder to the root.



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READ AND STORE RECIPIES IN MANAGER MENU

Recipes can be read and stored from both the Manager menu and the Service menu.

Recipes can only be read to, or stored from the CPU board by means of a memory stick. The transfer is always done out of a folder called "Programs". This folder has to be placed direct on the memory stick and cannot be placed in another folder, otherwise it will not work. If the folder called "Programs" doesn't exist on the memory stick, this folder will be created automatically while storing. The folder can contain several files with programs. The name of a file may exist of maximum 8 characters, otherwise it will not be read or stored. When reading a new program to the CPU board the old program will be deleted. So it's adviseable to store the old program first on your memory stick. **How to read and store recipes see also USB on page 24**.

To read a program from a memory stick to the CPU board is done as follows:

- 1. Place the memory stick and go to the manager menu choose "USB" and confirm with OK.
- 2. Go to "read" and confirm with "OK".
- 3. Go to "read stick" and confirm with "OK".
- 4. Choose file name, with "other file", and confirm with "OK".
- 5. Now go to "read file" and confirm with "OK".

Now the new program will be loaded inside the CPU board.

To store programs from the CPU board to the memory stick is done as follows:

- 1. Place the memory stick and go to the manager menu choose "USB" and confirm with "OK".
- 2. Go to "store" and confirm with "OK".
- 3. Now choose a file name and confirm with "OK".
- 4. Go to "save" and confirm with "OK".

Now the program will be stored on the memory stick.

Notes:

- When the message "files not found" is indicated on the display try to reset the machine by pulling the plug out for 5 seconds.
- The name of a file may not exist of more than 8 characters and can't have a space between the characters. Check this in the program file on the memory stick.
- It is not allowed to have a open line in the recipe list. Remove the open line and try again.
- If the reset doesn't work try to load the software again.
- All recipe names must have the extension .csv.

READ AND STORE RECIPIES AND PARAMETERS IN SERVICE MENU

Recipes can be read and stored from both the Manager menu and the Service menu.

Recipes can only be read to, or stored from the CPU board by neans of a memory stick. The transfer is always done out of a folder called "programs". This folder has to be placed direct on the memory stick and cannot be placed in another folder, otherwise it will not work. If the folder called "Programs" doesn't exist on the memory stick, this folder will be created automatically while storing. The folder can contain several files with programs. The name of a program file may exist of maximum 8 characters and can't have a space between the characters, otherwise it will not be read or stored.

When reading a new program to the CPU board the old program will be deleted. So it's adviseable to store the old program first on your memory stick.

To read a recipe program from a memory stick to the CPU board is done as follows:

- 1. Place the memory stick and go to the Service menu (pincode 4878), choose "USB" and confirm with OK.
- 2. Go to "read" and confirm with "OK".
- 3. Choose "recipes" and confirm with "OK".
- 4. Go to "read stick" and confirm with "OK".
- 5. Choose file name, with "other file", and confirm with "OK".
- 6. Now go to "read file" and confirm with "OK".

Now the new program will be loaded inside the CPU board.

To store recipe programs from the CPU board to the memory stick is done as follows:

- 1. Place the memory stick and go to the Service menu (pincode 4878) choose "USB" and confirm with "OK".
- 2. Go to "store" and confirm with "OK".
- 3. Choose "recipes" and confirm with "OK".
- 4. Now choose a file name and confirm with "OK".
- 5. Go to "save" and confirm with "OK".

Now the program will be stored on the memory stick.

Notes:

- When the message "files not found" is indicated on the display try to reset the machine by pulling the plug out for 5 seconds.
- The name of a file may not exist of more than 8 characters and can't have a space between the characters. Check this in the program file on the memory stick.
- It is not allowed to have a open line in the recipe list. Remove the open line and try again.
- If the reset doesn't work try to load the software again.
- All recipe names must have the extension .csv.

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Parameters can only be read to, or stored from the CPU board by means of a memory stick. The transfer is always done out of a folder called "PARAMS". This folder has to be placed direct on the memory stick and cannot be placed in another folder, otherwise it will not work. If the folder called "PARAMS" doesn't exist on the memory stick, this folder will be created automatically while storing. The folder can contain several parameter files. The name of a file may exist of maximum 8 characters and can't have a space between the characters, otherwise it will not be read or stored.

When reading a new parameter file to the CPU board the old parameters will be deleted. So it's adviseable to store the old program first on your memory stick.

To read a parameter list from a memory stick to the CPU board is done as follows:

- 1. Place the memory stick and go to the service menu (pincode 4878), choose "USB" and confirm with OK.
- 2. Go to "read" and confirm with "OK".
- 3. Choose "parameters" and confirm with "OK".
- 4. Go to "read stick" and confirm with "OK".
- 5. Choose file name, with "other file", and confirm with "OK".
- 6. Now go to "read file" and confirm with "OK".

Now the new parameters will be loaded inside the CPU board.

To store parameters from the CPU board to the memory stick is done as follows:

- 1. Place the memory stick and go to the Service menu (pincode 4878) choose "USB" and confirm with "OK".
- 2. Go to "store" and confirm with "OK".
- 3. Choose "parameters" and confirm with "OK".
- 4. Now choose a file name and confirm with "OK".
- 5. Go to "save" and confirm with "OK".

Now the parameters will be stored on the memory stick.

Notes:

- When the message "files not found" is indicated on the display try to reset the machine by pulling the plug out for 5 seconds.
- The name of a parameter file may not exist of more than 8 characters and can't have a space between the characters. Check this in the parameter file on the memory stick.
- •
- Check if there is a folder on the memory stick with the name "PARAMS".
- If it still doesn't work try to load the software again.
- All parameter name files must have the extension .csv.

PARAMETERS

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PARAMETER LIST P

п Общепит

		Parameters P eco software	version 1.04.09
Level 1	Level 2	Level 3 / Default	QPossibilities _ Q 1
Information		1.04.09	software version
Manager		1111	
	Preheat allowed	yes	yes - no
	Preheat temp	210	50 - 250
	Holding allowed	no	yes - no
	Holding temp	85	50 - 250
	Cook Correction '	Ves	yes - no
	Eco function ²	Ves	ves - no
	i i i i i i i i i i i i i i i i i i i	,,	English - Nederlands - Deutsch - Francais -
	Language	English	Espanol - Russian
	Big Digits	Ves	ves - no
	Sound preheat	T1, ■■□	T1 - T2 - T3
	Sound step	T2, ■□□	T1 - T2 - T3
	Sound done	T3, ■■■0	T1 - T2 - T3
		_	
1.200			
Service		4878	
C	Preheat allowed	ves	ves - no
	Preheat temp	210	50 - 250
	Holding allowed	no	yes - no
	Holding temp	85	50 - 250
	Cook corr. Option	Ves	yes - no
	Cook corr. factor	3	1 - 6
	Ecocook option	yes	yes - no
	Ecocook var	6	1 - 9
			English - Nederlands - Deutsch - Francais -
	Language	English	Espanol - Russian
	Big Digits	yes	yes - no
	Sound preheat	T1, ■■□	T1 - T2 - T3
	Sound step	12, 🗖 🗖	T1 - T2 - T3
	Sound done	Τ3, ∎∎∎ι	T1 - T2 - T3
	Temp unit	°C	°C - °F
	Boost allowed	no	yes - no
	User pin in use	no	yes - no
	Lights out	yes	yes - no
	Key beep	no	yes - no
	Temp offset	0	-50 - +50℃ or -100-+100℉
	Key sense	7	1 - 11
	Temp grad ³	3	0 - 19
	Second Display	0	0-1-2-3
	Thermistor 4	ves	yes - no

¹ Only visible when "Cook Corr. option" in Service Menu is set on "yes"
² Only visible when "Ecocook option" in Service Menu is set on "yes"
³ If set to "0" then the error 55 function is not active.

⁴ Has to be set on "no" until serial number 100067527.

Зип Общепит

ELECTRICAL TESTS AND SERVICE PROCEDURES

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

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

Туре	Wattage/Voltage	Resistance Ω -0% + 10%	Current A
TDR 5	3x 1800 / 230 3x 1800 / 208	3x 29.3 3x 24.0	3x 7.8 3x 8.6
TDR 7/8	2x 3000 / 230 1x 3300 / 230 2x 3000 / 208 1x 3300 / 208	2x 17.6 16.0 2x 14.4 13.1	2x 13.0 14.3 2x 14.4 15.8
TDW 5	2500 / 230	21.0	9.8
TDW 8	1500 / 230	35.0	5.9

CONTACTOR, DRIVE MOTOR AND BLOWER TEST

Note: When testing the resistance remove the wiring.

Туре	Description	Voltage	Resistance Ω
TDR 5 + 8	Contactor	230	Resistance of coil (A1 - A2) ~ 525
TDR 5 + 8	Drive motor	230	Between white A and white wire ~ 235 Between white A and brown wire ~ 117 Between white and brown wire ~ 117
TDR 5 + 8	Blower rotisserie	230	Between black and red wire ~ 65 Between black and blue wire ~ 35 Between red and blue wire ~ 30
TDW 5 + 8	Blower warmer	230	Between blue and brown wire ~ 310 Between blue and black wire ~ 320 Between brown and black wire ~ 630



PT1000 SENSOR TEST

ип Общенит

Temperature		Resistance Ω
°F	°C	± 5 Ohms
32	0	1000
60	16	1062
70	21	1082
80	27	1106
90	32	1124
100	38	1148
125	52	1202
150	65	1252
200	94	1362
250	121	1464
350	177	1674
450	233	1880

Note: When testing the resistance of the sensor remove the wiring. Pefer to the removal and replacement part of the manual on how to do this.

- 1. Remove the wiring from the sensor.
- 2. Connect a temperature sensor to the probe for comparison.
- 3. Test the probe with an Ohmmeter.

ERROR CODES ON DISPLAY

Error 11: Full contact between wires of PT sensor. Temp. indication on display doesn't go up.
Error 33: No connection between wires of PT sensor. Temp. indication on display 317°C/602°F.
Error 55: Heating defect. Temperature rise in °C/minute of the PT sensor during cooking of the products is under the minimum value as indicated in parameter "Temp. grad." See also the parameterlist on page 51 and explanation on page 46.

Error 66: Thermal protection of blower activated. This error message is active from software version V1.04-09.

Note: The parameter for this thermistor has to be set on "yes" only from serial number 100067527. For older models this parameter has to be set on "no", otherwise this results in a continuous error 66.

Error 77: If the expected heat number is more than 20% lower than the stored heat number in the cooking program. This error does not result in a complete shut down of the rotisserie, but is stored in the fault messages in the service menu.

Error 88: If the expected heat number is more than 20% higher than the stored heat number in the cooking program. This error does not result in a complete shut down of the rotisserie, but is stored in the fault messages in the service menu.

App. Error: - Parameter file cannot be openend when switching the TDR on.

- Failure during loading of parameters or programs.
- Communication failure keypad and CPU.

For explanation and solving of the errors see general troubleshooting list on page 55.



Кеу	Function	
On / Off	Switching the unit On / Off	
Undo	Go back to previous menu	
List	Recipe / programming modus	
Forward	One step ahead in setting	
Rotor	Switching the rotor on	
ОК	Acknowledge a function or change	
Back	One step back in setting	

0 = Off 1 = 25°C / 77°F 2 = 40°C / 104°F 3 = 60°C / 140°F 4 = 80°C / 176°F 5 = 95°C / 203°F



TROUBLESHOOTING



GENERAL TROUBLESHOOTING LIST

TROUBLESHOOTING FOR THIS TO TO THE ROTISSERIES

Symptom	Possible causes
No power to oven controls.	 Main breaker oper. 7 = 08 = 81 Fuse burned (F1). Fuse power and I/O board burned (F3)
	 4. Electronic control inoperative. 5. Wiring or flatcable loose/broken.
Main fuse or breaker blows.	 Wiring incorrectly. Heating element, drive motor, blower or contactor shorted. Wiring shorted.
Drive motor does not run during cooking cycle.	 Main fuse on L1 inoperative. Capacitor malfunction. Motor malfunction. Door switch malfunction. Power and I/O board malfunction. Also check relay X12. Wiring loose.
Drive motor stops and runs again after a certain period.	1. Thermal protection activated (105°C). This shuts off after the temperature is below 105°C.
Blower motor does not run.	 Capacitor malfunction. Motor inoperative. Power and I/O board malfunction. Also check relay X6. Wiring loose.
Blower motor stops and runs again after a certain period.	1. Thermal protection activated (140°C). This shuts off after the temperature is below 140°C.
Oven temperature differs from temperature setting.	 Incorrect line voltage. (safety) thermostat malfunction. Blower motor inoperative (turning direction?). Electronic control inoperative. PT 1000 sensor malfunction. PT 1000 sensor not in right place (see also page 32). Dirty fanguard or fanblade.
All heating elements out, both halo- gen lamps and blower operate while oven cavity is below set temperature.	 (safety) thermostat malfunction. Contactor inoperative. Power and I/O board malfunction. Wiring loose.
Oven temperature does not reach desired temperature.	 (safety) thermostat malfunction. Contactor inoperative. PT 1000 sensor malfunction. PT 1000 sensor not in right place (see also page 32). Electronic control inoperative. Heater(s) inoperative. Incorrect line voltage.
No display and/or keypad does not function.	 Main breaker open. Remove plug out of socket and connect plug again (reset of key sensitivity). Loose flat cable from CPU/display to power and I/O board. Fuse (125 mA) on power and I/O board burned. Power and I/O board malfunction. Loose flatcable from CPU/display to keypad. CPU board malfunction. Door switch malfunction. Keypad malfunction. Check also the adhesive of the keypad. Earth wire on CPU board makes contact with the solder point on the board (see CPU board page 28).



TROUBLESHOOTING

Зип Общепит

Symptom	
All beep functions do not function anymore.	 Obsolete software (older than V1.03.06). Load latest sofware. If no software is available unplug the unit for 5 seconds and plug in again. Now the beep signal value work again for 49 days. All sounds in parameter list are disabled (switched off).
Blue LED light On/Off key is fading in and out. Keypad does not function.	1. Flatcable from keypad on the operation panel is connected incorrectly. Must be connected to "Touchpanel 1" connector of CPU board (see CPU board page 28).
Programs are not saved. Only program 0 is available.	 Bug in program mode. Only way to bypass is to load mini- mum one program with a memory stick. Need to load latest software.
Infrared Halogen lamp(s) do not work.	 Contactor inoperative. Lamp(s) broken. Lamp holder broken. Wiring loose.
Infrared Halogen lamps do not shut off.	 Contactor inoperative. Power and I/O board malfunction. Also check relay X11.
Error 11. See also extra explanation on page 53.	 PT sensor malfunction. Wiring PT sensor shortened.
Error 33. See also extra explanation on page 53.	 PT sensor malfunction. Wiring PT sensor loose.
Error 55.	1. Contactor malfunction. 2. P.T. sensor malfunction.
See also extra explanation on page 53 and 57.	 Heating elements malfunction. See also page 53 and 57. Safety thermostat malfunction. For software older than V.1.03.07: Setting of temperature in cooking program is too high. Set temperature on "normal value". Load latest software. Parameter setting of "temp.grad" is not on value 3. (see page 51).
Error 66. See also extra explanation on page 53.	 Relay K3 not in place. Relay K3 malfunction. Model is older than serial nr.100067527 (has no relay K3). Parameter "thermistor" is set on "yes" in a model older than serial nr. 100067527.
Error 77. See also extra explanation on page 53.	 Check heat number in cooking program. Cooking program malfunction. Erase program, create new program, run a reference batch and run a second batch for verification.
Error 88. See also extra explanation on page 53.	 Check heat number in cooking program. Heating element malfunction. Cooking program malfunction. Erase program, create new program, run a reference batch and run a second batch for verification.
Application error. See also extra explanation on page 53.	A1. Make a complete reset by pulling out the plug for 1 sec. A2. CPU board malfunction.
A: No standard screen when switching on. B: APP. error on screen.	B1. Memory stick failure. B2. For communication failure load latest software version (solved in V1.03.08 or higher).

Зип Общепит



TROUBLESHOOTING FOR THIS EZIP AND 8 WARMERS

Symptom	Possible causes
No power to warmer controls.	1 Main breake open. US = S 2. Switch malfunction. 3. Wiring loose.
Main fuse or breaker blows.	 Wiring incorrectly. Heating element or blower shorted. Wiring shorted.
Blower motor does not run.	 Capacitor malfunction. Wiring loose. Motor inoperative.
Lamps do not operate.	 Lamp malfunction. Switch malfunction. Wiring loose.
Oven temperature does not reach desired temperature.	 Incorrect line voltage. Heater(s) inoperative. Thermometer malfunction. Thermostat malfunction. Thermostat probe not in right place. Blower motor inoperative (turning direction?) Dirty fanguard or fanblade.
Products dry out too fast.	1. No water in tray.
No indication on the display.	 Battery of display empty. Display malfunction.



Note: 1. Measuring starts 5 minutes after beginning of a heating step.

2. Duration is 5 periods of 2 minutes.

3. Measuring stops at 150°C/302°F or when temp. in cabinet is < 30°C than the set temperature.

Necessary line currents:

TDR8 with neutral 3x 16A. Without neutral 3x 27A. TDR5 with neutral 3x 8,5A. Without neutral 3x 14A.

Possible cause	Caused by	Explanation	Solution
Energy supply pro- blem	Broken contactor	One or more contacts broken, no current	Replace contactor
		Broken coil, contactor does not kick in	Replace contactor
	Missing phase	No current in one or two phases	Check mains connections and customer fuses
	Broken heating element	No current to one or more heating elements	Replace heating element
		Short circuit in heating element	Replace heating element
	Low supply Voltage	Low voltage results in low current	Check line voltage and currents.
	Hi-limit thermostat	Not adjusted to it's maximum	Fully turn clock-wise (cw)
		Broken thermostat.	Replace thermostat
	Broken temperature sensor	Sensor gives a wrong value	Replace sensor
	Wrong setting of "temp grad" parameter	Default setting is 3,> 0.5° per 2 minutes	Check setting
Too much energy absorption	Products are stuffed with a very humid substance		Put "temp grad"setting on 2 or 1.

Зип Общепит

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ANALYTIC TROUBLESHOOTING LIST

SERVICING AND REPAIRING THE TDR 5 AND 8 ROTISSERIES

This is an analytic description for servicing and repairing all major parts of the rotisseries and warmers. 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 see programming of rotisserie on page 6 in this manual.

Description of part	Symptoms	Possible causes	Solving: checking/action
Inside door	Broken glass	Slamming of door.	Give instruction to operator.
		Fastening bolts and nuts are loose.	Tighten all fastenings.
		No PTFE ring bet- ween steel and glass.	Mount new glass with PTFE rings between glass and steel.
Outside door	Broken glass	Slamming of door.	Give instruction to operator.
		Fastening bolts and nuts are loose.	Tighten all fastenings.
		No PTFE ring bet- ween steel and glass.	Mount new glass with PTFE rings between glass and steel.
	Door adjustment	Door not well adjus- ted 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 52.
	Duration of grilling time is too long	Wiring.	Check the wiring.
		Element malfunction.	Check the current with AC current tester. See table on page 52.



TROUBLESHOOTING

	3	ип Общеп	ИТ
Description of part	Symptoms	Possible causes	Solving: checking/action
Thermostat	Contactor doesn't come in after starting of program	Wiriege ZIP TU Thermostat malfunc- tion. 2987-0	Check the wiring. Check if the thermostat is making contact.
	Contactor switches off be- fore reaching the adjusted temperature in program	Thermostat malfunc- tion.	Check if the thermostat is turned fully clockwise (contact closed).
		Thermostat probe not in right position.	Check the position of the ther- mostat probe.
Safety thermostat	Contactor does not come in after starting of pro-	Wiring.	Check the wiring.
	gram	Thermostat malfunc- tion.	Check if the thermostat is making contact.
	Contactor switches off be- fore reaching the adjusted	Thermostat malfunc- tion.	Check if the thermostat is turned fully clockwise (contact closed).
		Thermostat probe not in right position.	Check the position of the ther- mostat probe.
PT-sensor	Temperature indication on display of 317°C / 603°F	No connection bet- ween wires.	Check the wiring. Check thin wire on sensor.
	Temperature indication on display does not go up	Full contact between wires of sensor.	Check the wiring.
		Short circuit in sensor.	Measure resistance of sensor. This is zero.
	Rotisserie does not reach adjusted temperature	Malfunction sensor.	Measure resistance of sensor with a thermometer probe next to the sensor. See table in this manual.
		Sensor not in right position.	Check position of sensor
	Temperature indication on display runs up too fast	Malfunction Sensor	Measure resistance of sensor. See table on page 53.
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	Contact burned.	Check the wiring.
	don't come in		Check the power on al contacts.
			Check the contacts of the contac- tor.

		Зип Общеп	
Description of part	Symptoms	Possible causes	Solving: checking/action
Capacitor	Drive motor or blower don't work	wreezip.ru	Check the wiring.
	+7	Capacitor malfunc-	Check-function after connecting a
			Checking of capacitor: Discharge capacitor with screwdriver. Set meter on $M\Omega$ 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.
Keypad(s) on opera- tion panel	No possibility to make a program	One or more keys don't function.	Check functions of keypad(s), see "function"parameter in service menu.
			Check flat cable connection bet- ween CPU board and keypad.
			Check flat cable.
			Check if keypad is correctly glued to the glass.
		No responce on all keys.	Remove plug from socket and con- nect again (reset of key sensitivity)
			Check flatcable connection bet- ween CPU board and keypad. Check flatcable.
			Check if keypad is correctly glued to the glass.

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TROUBLESHOOTING

	3	ип Общеп	ИТ
Description of part	Symptoms	Possible causes	Solving: checking/action
Display/CPU on operation panel and	No illumination on display	w/sezip.ru	Check the wiring.
power I/O board	+7(8	312)987-0	Check the power on the CPU board by the 2 flashing red LED's just near the flatcable on the power and I/O board.
		Fuse burned.	Check the 125 mA fuse on the power I/O board.
			Check the fuse F1 and F3.
		Flat cable.	Check grey flat cable connection.
			Check functions after connecting a new grey flat cable.
		Display/CPU malfunc- tion.	Check functions after installing a new CPU board with display.
		Power board mal- function.	Check functions after installing a new power I/O board.
	One or more functions don't work or stay activa- ted.	Relay malfunction.	Check relay on function with problem.
	Display shows strange things.	Parameters not on right settings.	Check parameters.
		Wrong software or loss of data.	Check software version or upload latest software.

	3	ип Общеп	
Description of part	Symptoms	Possible causes	Solving: checking/action
Drive motor	Motor doesn't run		Check the wiring.
		reelipha	Check the power to the motor.
	+7(8	Coil malfunction - 0	Check resistance of the coils. See a so table on page 52. Between whiteA and white wire 234Ω .
			Between whiteA and brown wire 117Ω .
			Between white and brown wire 117Ω .
		Reduction gearbox.	Check if reduction gearbox is blocked.
	Motor runs after starting it up by hand	Capacitor malfunc- tion.	Check capacitor (see capacitor) or connect new capacitor.
	Motor stops during pro- cess and comes in again after a period of time	Coil overheated, ther- mistor 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 du- ring 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. Check the power on the blower.
<i>Note:</i> Until serial number 100062182 this blower is exe- cuted with a 8 uF		Coil malfunction.	Check resistance of the coils. See also table on page 52. Between black and red wire 65Ω . Between black and blue wire 35Ω . Between red and blue wire 30Ω .
capacitor due to the minimum RPM. The blower in the rotisse- ries after 100062182	Blower runs after starting it up by hand	Capacitor malfunc- tion.	Check capacitor (see capacitor) or connect new capacitor.
have adapted coils and 6 uF capacitor. The RPM now are minimum 2500.	Blower stops during pro- cess and comes in again after a period of time	Coil overheated, ther- mistor switches off (140°C – 284°F).	Check cooling circuit of blower. Check if rotisserie is close to another heat source. Measure temperature blower during process.
	Temperature indication	Blower doesn't turn	Check the wiring.
	on display runs up very fast (180°C - 355°F after 5 minutes)	and heat stays in top of cavity.	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.

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TROUBLESHOOTING

Зип Общепит

SERVICING AND REPAIRING THE TDW 5 AND 8 P WARMERS

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Description of part	Symptoms	Possible causes	Solving: checking/action
Outside door	Broken glass.	Slaraming 21 doors	Give instruction to operator.
		Fastening bolts and nuts are loose.	Tighten all fastenings.
		No PTFE ring between steel and glass.	Mount new glass with PTFE rings bet- ween glass and steel.
	Door adjustment.	Door not well ad- justed and closes against bottom side.	Adjust door on hinge and tighten the hinge plate.
Heating element	Warmer doesn't reach adjusted temperature.	Wiring.	Check the wiring. Check the power on the element.
		Element malfunc- tion.	Check the current with AC current tester. See table on page 52.
Thermostat	Warmer doesn't reach adjusted temperature.	Wiring.	Check the wiring.
		Thermostat mal- function.	Check if the thermostat is making contact.
		-	Check the position of the thermostat probe.
	warmer doesn't heat up.	function.	Check if the drive shaft behind the main switch is connected on the thermostat.
			Check if the thermostat is making contact.
Thermometer	Temperature indication differs from setting with knob.	Thermometer mal- function	Check the position of the thermometer probe.
			Check function after connecting a new thermometer.
Main switch	No power to all, or some oven controls.	Wiring.	Check the wiring.
		Malfunction of the cams on the switch.	Check the cams.
		Contacts burned.	Check the contacts on the switch.

Зип Общепит

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Description of part	Symptoms	Possible causes	Sorving: checking/action		
Capacitor	Drive motor or blower	Wiring.	Check the wiring.		
	doesn't work.	Capacitor maifunc- tion.	Check function after connecting a new capacitor. Checking of capacitor: Discharge capacitor with screwdriver. Set meter on $M\Omega$ 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.		
Blower	Blower doesn't run.	Wiring. Coil malfunction.	Check the wiring. Check the power on the blower. Check resistance of the coils. See also table on page 50. Between blue and brown wire= 310Ω Between blue and black wire= 320Ω Between brown and black wire= 630Ω		
	Blower runs after starting it up by hand.	Capacitor malfunc- tion.	Check capacitor (see capacitor), or connect new capacitor.		
	Blower stops during pro- cess and comes in again after a period of time.	Coil overheated, thermistor switches off (150°C – 302°F).	Check cooling circuit of blower. Check if warmer is close to another heat source. Measure temperature blower during process.		
	Fuse burned.	Short circuit in coil to earth.	Check insulation value of coil with a Megger on 500V. Minimum value is 0.5 M Ω .		



3MI OGLIERAT EXPLODED VIEWS & PARTLISTS

TDR 5 P - SHEEVSEZIDVDEK





			Зип Общепит
ltem	Part number	Qty.	Description
1		1	Frame, ass.
2	9171125	4	Leg, rubber 50 mm
3	9294353	1	Side panel, left
3A	9294126	1	Side panel, left (till serial nr. 100061480)
4	9294352	1	Side panel, right
4A	9294125	1	Side panel, right (till serial nr. 100061480)
5	9294160	1	Top cover
6	9294350	1	Top plate
6A	9294127	1	Top plate (till serial nr. 100061480)
7	9294351	1	Cover, removeable
7A	9294128	1	Cover, removeable (till serial nr. 100061480)
8	9290450	1	Mounting plate, blower
9	9290476	1	Drawer
9A	9290456	1	Drawer (till serial nr. 100061480)
10	9171008	1	Drain-tap with handle
11	9294354	2	Bottom plate, stainless steel
11	9292098	2	Bottom plate, coated
11A	9294116	2	Bottom plate, stainless steel (till serial nr. 100061480)
11A	9292063	2	Bottom plate, coated (till serial nr. 100061480)
12	9290458	1	Cover plate, blower.
13	9294356	1	Side plate, left
13A	9294110	1	Side plate, left (till serial nr. 100061480)
14	9294357	1	Side plate, right
14A	9294112	1	Side plate, right (till serial nr. 100061480)
15	9170444	1	Support, gear motor
16	9294109	1	Reinforcement, side plate, left
17	9294111	1	Reinforcement, side plate, right
18	9294360	1	Cover plate, machine components
18A	9294119	1	Cover plate, machine components (till serial nr. 100061480)
19	9294370	1	Spark catcher
19A	9294121	1	Spark catcher (till serial nr. 100061480)
20	9294361	1	Mounting plate
20A	9294120	1	Mounting plate (till serial nr. 100061480)
21	9294381	1	Bracket, door switch
21A	9294065	1	Bracket, door switch (till serial nr. 100061480)
22	9172053	8	Nut
23	9261022	1	Strain relief M25
24	9261023	1	Connector M25
25	4288322	8	Screw M5 x 10
26	9172066	2	Swivel castor with brake (only for stacked units)
27	9172065	2	Swivel castor without brake (only for stacked units)
28	9110810	1	Indication plate
29	9171015	2	Grommet, plastic
30	2800082	2	Wing nut M6
31	9174154	2	Adjusting bracket





			ЗИ
Item	Part number	Qty.	Description
40	9146951	1	Rotorset ass., stainless steel
40-1	9170571	1	Rotor shaft
40-2	9174369	2	Rotor disc 3 mm
40-3	0142975	6	Socket head screw M6 x 20 SS
41	9172062	1	Steel bearing 14 mm
42	9010549	5	Meatfork, stainless steel
42	9172222	5	Meatfork, coated
43	92944635	2	Light fixture + end plate L and R
44	9052826	4	Lamp holder
45	9291001	2	Infrared Halogen lamp 500W
46	2300121	2	Terminal block, ceramic
47	9292061	2	Protection guard
48	92985505	1	Blower, ass.
48-1	9293020	1	Blower motor
48-2	3701218	1	Turbine Ø 200 mm x 43
48-3	3702325	1	Sealing, blower shaft, PSS
48-4	9294007	1	Washer plate
48-5	0142103	1	Washer M5
48-6	0142315	1	Nut M5
48-7	4288232	3	Srew M5x12
48-8	4285092	4	Nut M6
48-9	9192034	1	Capacitor 6 uF
48-10	9290487	1	Pully, for removing turbine
48-11	9293021	1	Conversion cable 3 to 5-pole
48-12	3701272	1	Plug, 5-pole M-N-L, universal
48-13	0601458	5	Socket, female M-N-L
49	92920195	1	Heating element 230 V. 5.4 KW
49	92920295	1	Heating element 208 V. 5.4 KW
49-1	9194489	1	Gasket heating element
50	9194501	1	Fastening plate
51	9794419	1	Protection support
52	9294419	1	Gearmotor complete with drive
52	32330013		head and capacitor 2.5 uF
53	9172078	1	Fanblade Ø 150 mm, gearmotor
54	9110797	1	Sealring, drive head
55	9073131	1	Sealing ring, Teflon
56	9261019	1	Fuse housing + holder
56A	9110025	1	Fuse housing (till ser.nr. 100067117)
57A	9110026	1	Fuse holder (till ser.nr. 100067117)
58	9191197	1	Fuse 6,3x32, ceramic T10A
58A	9171120	1	Fuse 5x20, ceramicT10A (till ser. nr. 100067117)
59	9070028	1	Connecting cable with plug
60	37012335	2	Door switch
61	9294075	1	Bracket temperature sensors
62	9110072	2	Clip
63	9172310	1	Temperature sensor PT 1000
64	9044140	1	Sensor cable
65	9291011	1	USB adapter
66	9291012	1	USB cable
		1 *	

106	Общепит				
Item	Part number	Qty.	Description		
67	\$291010	1	Cover USB adapte		
6852	4.285010	2	Nut M3		
69	0141050	2	Screw M3x10		
70 0	9290210_	9_(Electric panel, ass.		
70-1	9044564	9	Connecting block, 1,2,3		
70-2	9044572	1	Connecting block, 4,5,6		
70-3	3500069	1	Contactor		
70-4	9077088	2	Rail		
70-5	9040970	1	Safety thermostat		
70-6	9192034	1	Capacitor 6 uF		
70-6A	3701274	1	Capacitor 5 uF (till serial nr. 100062182)		
70-7	9077101	1	Capacitor 2.5 uF		
70-7A	9077102	1	Capacitor 3 uF (till serial nr. 100061450)		
70-8	9191222	2	End clamp		
70-9	9191232	2	Rail terminal, 2p grey		
70-10	9191240	3	Rail terminal, 4p grey		
70-11	9191241	2	Rail terminal, 4p blue		
70-12	9191223	1	Endcap, terminal		
70-13	9191238	1	Connecting bridge, 2p		
70-14	9070840	1	Grommet		
70-15	9261032	1	Socket for relay		
70-16	9261031	1	Relay		
70-17	9261030	1	Clamp		
71	9192202	1	Power & I/O board		
72	9172314	1	Flat cable, 14 pins		
73	9298520	1	Operation panel, ass. Glass + backplate + keypad with flat- cable		
73-1	9292041	1	Keypad + flatcable		
74	92920405	1	CPU board + LCD		
75	9298521	1	Panel, customer side, ass. Glass + backplate		
76	9298524	1	Panel, customer side, ass. Glass + backplate. For stacked models only		
77	9298523	1	Operation panel, ass. Glass + backplate + keypads with flat- cables. For stacked models only		
78	9298526	1	Operation panel bottom side, ass. Glass + backplate. For stacked models only		
79	9298521	1	Panel, customer side, bottom side, ass. Glass + backplate. For stacked models only		
80	9172362	1	Buzzer 12V, separate connection for service		
82	9291014	1	Cap, 5-pole M-N-L		
83	0601466	5	Pin, male M-N-L		

TDR 5 P - DOORS



EXPLODED VIEWS AND PARTLISTS

Зип Общепит



Item	Part number	Qty.	Description	
90.S	92985005	1	Door service side, ass.	
90-1	4280558	2	Screw M5 x 16 SS	
90-2	3702342	8	Flange bush, PTFE 3 mm	
90-3	9294149	1	Protection profile	
90-4	9294135	1	Hinge profile	
90-5	9172054	2	Brass bearing 8 mm	
90-6	9172122	2	Brass bearing 8 mm, adjusted	
90-7	4311110	2	Washer M5	
90-8	0144359	2	Nut M5, self locking	
90-9	4288059	2	Bolt M5 x 50 SS	
90-9A	4288320	2	Screw M5 x 50 SS (till serial number 100068523)	
90-10	9294137	1	Fastening, door handle	
90-11	9294136	1	Magnet holder profile	
90-12	9174680	2	Washer	
90-13	9070141	10	Magnet block	
90-14	9293010	2	Spacing pin	
90-15	9293009	1	Door handle	
90-16	2103209	2	Plug, door handle	
90-17	4302141	2	Таре 20 х 0.8	
90-18	0-18 9294229 1		Blocking bracket	
91.C	92985015	1	Door customer side, ass.	
91-1	4280558	4	Screw M5 x 16 SS	
91-2	3702342	8	Flange bush, PTFE 3 mm	
91-3	9294149	1	Protection profile	
91-4	9294135	1	Hinge profile	
91-5	9172054	2	Brass bearing 8 mm	
91-6	9172122	2	Brass bearing 8 mm, adjusted	
91-7	9174680	4	Washer M5	
91-8	0144359	4	Nut M5, self locking	
91-9	9070141	10	Magnet block	
91-10	9294137	1	Fastening, door handle	
91-11	9294136	1	Magnet holder profile	
91-12	4302141	2	Tape 20 x 0.8	

Litem	Part numper	Otv	Description
92	92985025	2	Door inside, ass.
92.9	9292011	2	Glass, inside door
92-2	9290457	2	Hinge profile
92-3	9191050	4	Bolt M5 x 18 SS, hexagon head
92-4	3702341	16	Flange bush, PTFE 2 mm
92-5	9294139	4	Cover profile
92-6	0142315	8	Nut M5 SS
92-7	9294140	2	Holder, magnet
92-8	9294141	2	Profile
92-9	9070141	16	Magnet block
92-10	9172291	4	Spacing pin
92-11	9174680	12	Washer
93	9290409	1	Hinge, left
94	9290410	1	Hinge, right




			Зип Общетит			
Item	Part number	Qty.	Description			
1		1	Frame, ass.			
2	9171125	4	Leg, rubber 50 mm VSEZID.TU			
3	9294180	1	Side panel, left			
4	9294018	1	Side panel, right 7/019/007_00_0-			
5	9294009	1	Top cover 77 (012)907 00 0			
6	9294032	1	Top plate			
7	9294045	1	Cover, removeable			
8	9290401	1	Mounting plate, blower			
9	9290405	1	Drawer			
10	9171008	1	Drain-tap with handle			
11	9294014	2	Bottom plate, stainless steel			
11	9292062	2	Bottom plate, coated			
12	9290411	1	Cover plate, blower			
13	9294011	1	Side plate, left			
14	9294030	1	Side plate, right			
15	9170444	1	Support, gear motor			
16	9294028	1	einforcement, side plate, left			
17	9294029	1	Reinforcement, side plate, right			
18	9294026	1	over plate, machine components			
19	9294019	1	Spark catcher			
20	9294025	1	ounting plate			
21	9294065	2	Bracket, door switch			
22	9172053	8	Nut			
23	9261022	1	Strain relief M25			
24	9261023	1	Connector M25			
25	4288322	8	Screw M5 x 10			
26	9172066	2	Castor with brake (only for stacked units)			
27	9172065	2	Castor without brake (only for stacked units)			
28	9110810	1	Indication plate			
29	9171015	2	Grommet, plastic			
30	2800082	2	Wingnut M6			
31	9174154	2	Adjusting bracket			



TDR 8 P - COMPONENTS

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	Зип Общенит 🗲 ті-јадо							
Item	Part number	Qty.	Description	Item	Part number	Qty.	Description	
40	9172274	1	Rotorset ass., stainless steel	64	9044140	1	Sensor cable	
40-1	9070272	1	Rotor shaft	<u>965</u>	9291011	1	USB adapter	
40-2	9174623	2	Rotor disc 3 mm	66	9291012	1	USB cable	
40-3	4288231	12	Tensilock bolt M5 x 10	67	9291010	10	Cover USB adapte	
40-4	9172169	14	Support pin	-68 /	4235010	20	Nut M3	
40-5	0142056	14	Spring washer M8	69	0141050	2	Screw M3x10	
40-6	0141547	14	Nut M8	70	9290210	1	Electric panel, ass.	
41	9172063	1	Steel bearing 14 mm	70-1	9044564	1	Connecting block, 1,2,3	
42	9172153	8	Meatfork 8 mm SS	70-2	9044572	1	Connecting block, 4,5,6	
42	9172242	8	Meatfork 8 mm, coated	70-3	3500069	2	Contactor	
43	92944635	2	Light fixture + end plate L and R	70-4	9077088	2	Rail	
44	9052826	4	Lamp holder	70-5	9040970	1	Safety thermostat	
45	9291001	2	Infrared Halogen lamp 500W	70-6	9192034	1	Capacitor 6 uF	
45	3701273	1	Turbine Ø 200 mm x 61	70-6A	3701274	1	Capacitor 5 uF (till serial nr.	
46	2300121	2	Terminal block, ceramic				100062182)	
47	9292061	2	Protection guard	70-7	9077101	1	Capacitor 2.5 uF	
48	92985515	1	Blower, ass.	70-7A	9077102	1	Capacitor 3 uF (till serial nr.	
48-1	9293020	1	Blower motor	70-8	9191777	2	End clamp	
48-2	3701273	1	Turbine Ø 200 mm x 61	70-9	9191222	2	Rail terminal 2p grey	
48-3	3702325	1	Sealing, blower shaft, PSS	70-10	9191740	3	Rail terminal 4p grey	
48-4	9294007	1	Washer plate	70-10	9191240	2	Rail terminal <i>A</i> p blue	
48-5	0142103	1	Washer M5	70-12	9191271	1	Endcap terminal	
48-6	0142315	1	Nut M5	70-12	9191225	1	Connecting bridge 2n	
48-7	4288232	3	Srew M5x12	70-13	90708/0	1	Grommet	
48-8	4285092	4	Nut M6	70-14	9261032	1	Socket for relay	
48-9	9192034	1	Capacitor 6 uF	70-15	0261021	1	Polov	
48-10	9290487	1	Pully, for removing turbine	70-10	9201031	1	Clamp	
48-11	9293021	1	Conversion cable 3 to 5-pole	70-17	9201030	1	Power & I/O board	
48-12	3701272	1	Plug, 5-pole M-N-L, universal	71	017221/	1	Flat cable, 14 pins	
48-13	0601458	5	Socket, female M-N-L	72	0208530	1	Operation panel ass Glass + back-	
49	92920185	1	Heating element 230 V, 9.3 KW	/5	9290550	1	plate + Keypad with flatcable	
49	92920285	1	Heating element 208 V, 9.3 KW	73-1	9292041	1	Keypad + flatcable	
49-1	9194489	1	Gasket, heating element	74	92920405	1	CPU board + LCD	
50	9194501	1	Fastening plate	75	9298531	1	Panel, customer side, ass. Glass +	
51	9294421	1	Protection support				backplate	
52	9293002	1	Gearmotor, complete with drive head	76	9298534	1	Panel, customer side, ass. Glass +	
53	9172078	1	Fanblade Ø 150 mm, gearmotor]			For stacked models only	
54	9110797	1	Sealring, drive head	77	9298533		Operation panel, ass. Glass + back-	
55	9073131	1	Sealing ring, Teflon				plate + keypads with flatcable.	
56	9261019	1	Fuse housing + holder	70	0208526	1	ror stacked models only	
56A	9110025	1	Fuse housing (till ser.nr. 100067117)	/ð	9290230		ass. Glass + backplate.	
57A	9110026	1	Fuse holder (till ser.nr. 100067117)				For stacked models only	
58	9191197	1	Fuse 6,3x32, ceramic T10A	79	9298531	1	Panel, customer side, bottom side,	
58A	9171120	1	Fuse 5x20, ceramicT10A (till ser.nr. 100067117)				ass. Glass + backplate. For stacked models only	
59	9070028	1	Connecting cable with plug				For stacked models only	
60	37012335	2	Door switch	80	9172362	1	Buzzer 12V, separate connection for	
61	9294069	1	Bracket temperature sensors	81Δ	9172280	1	Distance bush (till ser pr. 100060426)	
61A	9294063	1	Bracket temperature sensors (until	87	929101/	1	Can 5-nole M-N-I	
			serial nr. 100060436)	82	0601/158	5	Pin male M-N-I	
62	9110072	2	Clip		0001400	ر ا		
63	9172310	1	Temperature sensor PT 1000					

ЗИП Общенит TDR 8 P - DOORS



Зип Общепит



Item	Part number	Qty.	Description
90.S	92985105	1	Door service side, ass.
90-1	4280558	2	Screw M5 x 16 \$5_7
90-2	3702342	8	Flange bush, PTFE 3 mm
90-3	9294049	1	Protection profile
90-4	9294048	1	Hinge profile
90-5	9172054	2	Brass bearing 8 mm
90-6	9172122	2	Brass bearing 8 mm, adjusted
90-7	4311110	2	Washer M5
90-8	0144359	2	Nut M5, self locking
90-9	4288059	2	Bolt M5 x 50 SS
90-9A	4288320	2	Screw M5 x 50 SS
90-10	9294035	1	Fastening, door handle
90-11	9294034	1	Magnet holder profile
90-12	9174680	2	Washer
90-13	9070141	12	Magnet block
90-14	9293010	2	Spacing pin
90-15	9293008	1	Door handle
90-16	2103209	2	Plug, door handle
90-17	4302141	2	Таре 20 х 0.8
90-18	9294229	1	Blocking bracket
91.C	92985115	1	Door customer side, ass.
91-1	4280558	4	Screw M5 x 16 SS
91-2	3702342	8	Flange bush, PTFE 3 mm
91-3	9294049	1	Protection profile
91-4	9294048	1	Hinge profile
91-5	9172054	2	Brass bearing 8 mm
91-6	9172122	2	Brass bearing 8 mm, adjusted
91-7	9174680	4	Washer
91-8	0144359	4	Nut M5, self locking
91-9	9070141	12	Magnet block
91-10	9294035	1	Fastening, door handle
91-11	9294034	1	Magnet holder profile
91-12	4302141	2	Таре 20 х 0.8
91-13	9294229	1	Blocking bracket

Titem	a thumper	Qty.	Description
92	92985125	2	Door inside, ass.
92-1	9292013	2.0	Glass, inside door
92-2	9290406	2	Hinge profile
92-3	9191050	4	Bolt M5 x 18 SS
92-4	3702341	16	Flange bush, PTFE 2 mm
92-5	9294037	4	Cover profile
92-6	0142315	8	Nut M5 SS
92-7	9294038	2	Holder, magnet
92-8	9294039	2	Profile
92-9	9070141	20	Magnet block
92-10	9172291	4	Spacing pin
92-11	9174680	12	Washer
93	9290409	1	Hinge, left
94	9290410	1	Hinge, right







Item	Part number	Qty.	Description	
1		1	Frame, ass.	
2	9294353	1	Side panel, left 8 2 9 8 7 = 0 8 = 8	
2A	9294126	1	Side panel, left (till serial nr. 10006 480)	
3	9294352	1	Side panel, right	
3A	9294125	1	Side panel, right (till serial nr. 100061480)	
4	9290492	1	Reinforcement plate, left	
4A	9290510	1	Reinforcement plate, left (till serial nr. 100061480)	
5	9290493	1	Reinforcement plate, right	
5A	9290511	1	Reinforcement plate, right (till serial nr. 100061480)	
6	9294359	1	Reinforcement, left top	
6A	9294110	1	Reinforcement, left top (till serial nr. 100061480)	
7	9294461	1	Reinforcement, right top	
7A	9294280	1	Reinforcement, right top (till serial nr. 100061480)	
8	9294351	1	Cover, removable	
8A	9294128	1	Cover, removable (till serial nr. 100061480)	
9	9294454	1	Top plate	
9A	9294288	1	Top plate (till serial nr. 100061480)	
10	9290494	1	Ceiling	
10A	9290512	1	Ceiling (till serial nr. 100061480)	
11	9294455	1	Cover plate, machine components	
11A	9294287	1	Cover plate, machine components (till serial nr. 100061480)	
12	9123492	1	Indication plate	
13	9172053	8	Nut	
14	9222076	1	Strain relief M20	
15	9222077	1	Connector M20	
16	9294459	1	Spark catcher	
16A	9294291	1	Spark catcher (till serial nr. 100061480)	
18	4288322	8	Screw M5 x 10	
19	9290476	1	Drawer	
19	9290456	1	Drawer (till serial nr. 100061480)	
20	9171008	1	Drain-tap with handle	
21	9294460	1	Bottom plate	
21A	9294286	1	Bottom plate (till serial nr. 100061480)	
22	9142192	1	Display rack	
23	9290513	1	Ventilating plate	
24	9294284	3	Runner	
25	9294285	1	Runner for bottom plate	
26	9171020	12	Spacing pin	
27	9171125	4	Rubber leg 50 mm	
28	9172066	2	Swivel castor with brake (only for stacked units)	
20	9172065	2	swivel castor without brake (only for stacked units)	

TDW 5 P - COMPONENTS





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Item	Part number	Qty.	Description
40	9294271	1	Lamp shade
41	9052826	2	Lamp holder
42	9082774	1	Lamp. Halotherm 200 W
43	2300121	1	Terminal block, Ceramic
44	9292061	1	Protection guard, Halotherm lamp
45.S	92985005	1	Door service side, ass.
45-1	4280558	2	Screw M5 x 16 SS
45-2	3702342	8	Flange bush, PTFE 3 mm
45-3	9294149	1	Protection profile
45-4	9294135	1	Hinge profile
45-5	9172054	2	Brass bearing 8 mm
45-6	4311110	2	Washer M5
45-7	0144359	2	Nut M5, self locking
45-8	4288320	2	Screw M5 x 50 SS
45-9	9294137	1	Fastening, door handle
45-10	9294136	1	Magnet holder profile
45-11	9174680	2	Washer
45-12	9070141	12	Magnet block
45-13	9293010	2	Spacing pin
45-14	9293009	1	Door handle
45-15	2103209	2	Plug, door handle
45-16	4302141	2	Таре 20 х 0.8
46.C	92985015	1	Door customer side, ass.
46-1	4280558	4	Screw M5 x 16 SS
46-2	3702342	8	Flange bush, PTFE 3 mm
46-3	9294149	1	Protection profile
46-4	9294135	1	Hinge profile
46-5	9172054	2	Brass bearing 8 mm
46-6	4311110	4	Washer M5
46-7	0144359	4	Nut M5, self locking
46-8	9070141	12	Magnet block
46-9	9294137	1	Fastening, door handle
46-10	9294136	1	Magnet holder profile
46-11	4302141	2	Таре 20 х 0.8
47	9040714	1	Main switch, warmer
48	9082994	1	Thermostat 90 - 230°F
49	9174139	1	Spray mouth

Item	Part number	Qty.	Description
307	9110043	1	Blower
50-1	9110153	1	Fan blade
50-2	9073150	1 🕡	Wing nut, left hand threaded
51	9040722	10	Connecting block
52	9044564	1	Connecting block, 1,2,3
53	9044572	1	Connecting block, 4,5,6
54	9110030	1	Capacitor 1,5 mF
55	9091383	1	Connecting cable with plug
56	9160865	1	Heating element 230 V, 2,5 KW
57	0169197	2	Gasket, heating element
58	0169189	2	Nut, heating element
59	9171006	1	Thermometer, digital °C
59-1	9079066	1	Battery
60	9298509	1	Main switch knob, assembly
60-1	9292002	1	Cover, black
60-2	9292001	1	Control knob, black
60-3	9292008	1	Back plate, 0-5
60-4	9172052	1	Locking ring
60-5	9110802	1	Seal ring
61	9298537	1	Operation panel, ass. glass + back- plate
62	9298521	1	Back panel, ass. glass + backplate
63	9290409	1	Hinge, left
64	9290410	1	Hinge, right
65	9294270	1	Filling plate
66	9294269	1	Mounting plate



Зип Общепит



Item	Part number	Qty.	Description			
1		1	Frame, ass.			
2	9294031	1	Side panel, left			
3	9294018	1	Side panel, right			
4	9290500	1	Reinforcement plate, left			
5	9290501	1	Reinforcement plate, right			
6	9294110	1	Reinforcement, left top			
7	9294258	1	Reinforcement, right top			
8	9294045	1	Cover, removable			
9	9294263	1	Top plate			
10	9290502	1	Ceiling			
11	9294262	1	Cover plate, machine components			
12	9123492	1	Indication plate			
13	9172053	8	Nut			
14	9222076	1	Strain relief M20			
15	9222077	1	Connector M20			
16	9294019	1	park catcher			
17	9294025	1	lounting plate			
18	4288322	8	crew M5 x 10			
19	9290405	1	Drawer			
20	9171008	1	Drain-tap with handle			
21	9294267	1	Bottom plate			
22	9040748	1	Display rack			
23	9290504	1	Ventilating plate			
24	9294261	5	Runner			
25	9294268	1	unner for bottom plate			
26	9171020	12	Spacing pin			
27	9171125	4	Rubber leg 50 mm			
28	9172066	2	Swivel castor with brake (only for stacked units)			
29	9172065	2	Swivel castor without brake (only for stacked units)			

TDW 8 P - COMPONENTS



Зип Общепит

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Item	Part number	Qty.	Description
40	9294271	2	Lamp shade
41	9052826	4	Lamp holder
42	9082774	2	Lamp. Halotherm 200 W
43	2300121	2	Terminal block, Ceramic
44	9292061	2	Protection guard, Halotherm lamp
45.S	92985105	1	Door service side, ass.
45-1	4280558	2	Screw M5 x 16 SS
45-2	3702342	8	Flange bush, PTFE 3 mm
45-3	9294049	1	Protection profile
45-4	9294048	1	Hinge profile
45-5	9172054	2	Brass bearing 8 mm
45-6	4311110	2	Washer M5
45-7	0144359	2	Nut M5, self locking
45-8	4288320	2	Screw M5 x 50 SS
45-9	9294035	1	Fastening, door handle
45-10	9294034	1	Magnet holder profile
45-11	9174680	2	Washer
45-12	9070141	12	Magnet block
45-13	9293010	2	Spacing pin
45-14	9293008	1	Door handle
45-15	2103209	2	Plug, door handle
45-16	4302141	2	Tape 20 x 0.8
46.C	92985115	1	Door customer side, ass.
46-1	4280558	4	Screw M5 x 16 SS
46-2	3702342	8	Flange bush, PTFE 3 mm
46-3	9294049	1	Protection profile
46-4	9294048	1	Hinge profile
46-5	9172054	2	Brass bearing 8 mm
46-6	4311110	4	Washer M5
46-7	0144359	4	Nut M5, self locking
46-8	9070141	12	Magnet block
46-9	9294035	1	Fastening, door handle
46-10	9294034	1	Magnet holder profile
46-11	4302141	2	Таре 20 х 0.8
47	9040714	1	Main switch, warmer
48	9082994	1	Thermostat 90 - 230°F
49	9174139	1	Spray mouth

Item	Part number	Qty.	Description
50	9110048	1	Blower
50-1	9110153	1	Fan blade
50-2	2073150	9-5	Wing nut, left hand threaded
51	9040722	1	Connecting block
52	9044564	1	Connecting block, 1,2,3
53	9044572	1	Connecting block, 4,5,6
54	9110030	1	Capacitor 1,5 mF
55	9091383	1	Connecting cable with plug
56	9005251	2	Heating element 230 V, 1,5 KW
57	0169197	2	Gasket, heating element
58	0169189	2	Nut, heating element
59	9171006	1	Thermometer, digital °C
59-1	9079066	1	Battery
60	9298509	1	Main switch knob, assembly
60-1	9292002	1	Cover, black
60-2	9292001	1	Control knob, black
60-3	9292008	1	Back plate, 0-5
60-4	9172052	1	Locking ring
60-5	9110802	1	Seal ring
61	9298538	1	Operation panel, ass. glass + backplate
62	9298531	1	Back panel, ass. glass + backplate
63	9290409	1	Hinge, left
64	9290410	1	Hinge, right
65	9294270	1	Filling plate
66	9294269	1	Mounting plate



ЗИП Общепит

ELECTRICAL DIAGRAMS

CIRCUIT DIAGRAM TOR 9 AND 8 P







ЗИП ОбЩепит CIRCUIT DIAGRAM TDR 5 AND 8 P (UNTILL SERIAL NUMBER 100067527)



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WIRING DIAGRAM TDR 5 AND 8 P (UNTIL SERIAL NUMBER 100067527)



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ELECTRICAL DIAGRAMS

0 (UNTIL 01-07-2012) **CIRCUIT DIAGRAM** TDR 5 P



СIRCUIT DIAGRAM TDR 8 P (UNTIL 01-07-2012)

ELECTRICAL DIAGRAMS



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CIRCUIT DIAGRAM TDR 5 + 5 P BOTTOM UNIT (UNTIL 01-07-2013)

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CIRCUIT DIAGRAM TDR 8 + 8 P BOTTOM UNIT (UNTIL 01-07-2012)









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ELECTRICAL DIAGRAMS

CIRCUIT DIAGRAM TOW 5

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