

TEMPSTAR TEMPSTAR SDS TEMPSTAR NB

HOT WATER SANITIZING UPRIGHT DOOR DISHMACHINES

SERVICE MANUAL

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				(12 KW Bo	ooster Heater)	(14 KW Booster Heater)					
Model	Volts	Hz	Phase	A	mps	Amps	Model	Volts	Hz	Phase	Amperage Loads
Tempstar	208	60	1		68.7	75.8	Tempstar NB	208	60	1	24.6
Tempstar	230	60	1		75.4	83.6	Tempstar NB	230	60	1	26.6
Tempstar	208	60	3		42.1	46.3	Tempstar NB	208	60	3	16.3
l empstar	230	60	3		45.5	50.7	Tempstar NB	230	60	3	17.5
Tempstar	460	60	3		21.7	24.1	Tempstar NB	460	60	3	7.9
Tempsial SDS	200 230	60 60	1		00.7 75 A	75.0 83.6					
Tempstar SDS	208	60	3		42 1	46.3					
Tempstar SDS	230	60	3		45.5	50.7					
Tempstar SDS	460	60	3	:	21.7	24.1					
PERFORMANCE/CA	APABILIT	IES									
OPERATING CAPA	CITY (RA	CKS/	HOUR)		TEMPERATU	JRES		FRAME [SIONS	
RACKS PER HOUF	R		•	57	WASH(MI	NIMUM)	150°F	WIDTH			25 3/4"
DISHES PER HOU	IR			1425	RINSE(M	INIMUM)	180°F	DEPTH			25 1/4"
GLASSES PER HC	DUR			1425				HEIGHT			56 3/4"
					ELECTRICA	L REQUIREMENTS		STANDA	ARD 1	ABLE HEIGHT	Г 34"
OPERATING CYCLE	E (SECOI	NDS)			WASH PUM	IP MOTOR HP	3/4	ΜΑΧΙΜΙ	JM IN	SIDE CLEARA	ANCE 17 1/4"
WASH TIME				45							
RINSE TIME				11	WATER REQ	UIREMENTS		RACKS			
DWELL TIME				2	INLET TEM	PERATURE (12 KW) (Tempstar)	140°F	DISH 20)" X 2)"	OPTION
TOTAL CYCLE TIM	ΛE			60	INLET TEM	PERATURE (14 KW) (Tempstar	[.]) 110°F	GLASS	& SIL	VER 20" X 20"	OPTIONA
					INLET TEM	PERATURE (12 KW) (SDS)	140°F				
TANK CAPACITY (L	LITERS) C	GALL	ONS		INLET TEM	PERATURE (14 KW) (SDS)	110°F				
WASH TANK (MINI	IMUM)			8.0	INLET TEM	PERATURE (12 KW) (NB)	180°F				
BOOSTER TANK				3.0	GALLONS F	PER HOUR	52.0				
					WATER LIN	E SIZE I.P.S. (Minimum)	3/4"				
WASH PUMP CAPA	CITY				DRAIN LINE	E SIZE I.P.S. (Minimum)	1-1/2"				
	IS PER M	INUT	F	150	FLOW PRE	SSURE P.S.I. (Optimum)	20				

INSTALLATION INSTRUCTIONS

Jackson MSC Inc. provides technical support for all of the dishmachines detailed in this manual. We strongly recommend that you refer to this manual before making a call to our technical support staff. Please have this manual with you when you call so that our staff can refer you, if necessary, to the proper page. Technical support is available from 8:00 a.m. to 5:00 p.m. (EST), Monday through Friday. Technical support is not available on holidays. Contact technical support toll free at 1-888-800-5672. Please remember that technical support is available for service personnel only.

VISUAL INSPECTION: Before installing the unit, check the container and machine for damage. A damaged container is an indicator that there may be some damage to the machine. If there is damage to both the container and machine, do not throw away the container. The dishmachine has been inspected and packed at the factory and is expected to arrive to you in new, undamaged condition. However, rough handling by carriers or others may result in there being damage to the unit while in transit. If such a situation occurs, do not return the unit to Jackson; instead, contact the carrier and ask them to send a representative to the site to inspect the damage to the unit and to complete an inspection report. You must contact the carrier within 48 hours of receiving the machine. Also, contact the dealer through which you purchased the unit.

UNPACKING THE DISHMACHINE: Once the machine has been removed from the container, ensure that there are no missing parts from the machine. This may not be obvious at first. If it is discovered that an item is missing, contact Jackson immediately to have the missing item shipped to you.

LEVEL THE DISHMACHINE: The dishmachine is designed to operate while being level. This is important to prevent any damage to the machine during operation and to ensure the best results when washing ware. The unit comes with adjustable bullet feet, which can be turned using a pair of channel locks or by hand if the unit can be raised safely. Ensure that the unit is level from side to side and from front to back before making any connections.

PLUMBING THE DISHMACHINE: All plumbing connections must comply with all applicable local, state, and national plumbing codes. The plumber is responsible for ensuring that the incoming water line is thoroughly flushed prior to connecting it to any component of the dishmachine. It is necessary to remove all foreign debris from the water line that may potentially get trapped in the valves or cause an obstruction. Any valves that are fouled as a result of foreign matter left in the water line, and any expenses resulting from this fouling, are not the responsibility of the manufacturer.

CONNECTING THE DRAIN LINE: The drain for the Tempstar models covered in this manual are gravity discharge drains. All piping from the 1-1/2" FNPT connection on the wash tank must be pitched (1/4" per foot) to the floor or sink drain. All piping from the machine to the drain must be a minimum 1-1/2" I.P.S. and shall not be reduced. There must also be an air gap between the machine drain line and the floor sink or drain. If a grease trap is required by code, it should have a flow capacity of 5 gallons per minute.

WATER SUPPLY CONNECTION: Ensure that you have read the section entitled "PLUMBING THE DISHMACHINE" above before

proceeding. Install the water supply line (3/4" pipe size minimum) to the dishmachine line strainer using copper pipe. It is recommended that a water shut-off valve be installed in the water line between the main supply and the machine to allow access for service. The water supply line is to be capable of 25 PSI "flow" pressure at the recommended temperature indicated on the data plate.

In areas where the water pressure fluctuates or is greater than the recommended pressure, it is suggested that a water pressure regulator be installed. The Tempstar models covered in this manual come with water pressure regulators as standard equipment. Please notify Jackson immediately if this component is not present on your machine.

Do not confuse static pressure with flow pressure. Static pressure is the line pressure in a "no flow" condition (all valves and services are closed). Flow pressure is the pressure in the fill line when the fill valve is opened during the cycle.

It is also recommended that a shock absorber (not supplied with the Tempstar model) be installed in the incoming water line. This prevents line hammer (hydraulic shock), induced by the solenoid valve as it operates, from causing damage to the equipment.

PLUMBING CHECK: Slowly turn on the water supply to the machine after the incoming fill line and the drain line have been installed. Check for any leaks and repair as required. All leaks must be repaired prior to placing the machine in operation.

ELECTRICAL POWER CONNECTION: Electrical and grounding connections must comply with the applicable portions of the National Electrical Code ANSI/NFPA 70 (latest edition) and/or other electrical codes.

Disconnect electrical power supply and place a tag at the disconnect switch to indicate that you are working on the circuit.

The dishmachine data plate is located on the right side and to the front of the machine. Refer to the data plate for machine operating requirements, machine voltage, total amperage load and serial number.

To install the incoming power lines, open the control box. This will require taking a phillipshead screwdriver and removing the four (4) screws on the front cover of the control box. Install 3/4" conduit into the pre-punched holes in the back of the control box. Route power wires and connect to power block and grounding lug. Install the service wires (L1, L2, and L3 (3 phase only)) to the appropriate terminals as they are marked on the terminal block. Install the grounding wire into the lug provided. Tighten the connections. It is recommended that "DE-OX" or another similar anti-oxidation agent be used on all power connections.

VOLTAGE CHECK: Ensure that the power switch is in the OFF position and apply power to the dishmachine. Check the incoming power at the terminal block and ensure it corresponds to the voltage listed on the data plate. If not, contact a qualified service agency to examine the problem. Do not run the dishmachine if the voltage is too high or too low. Shut off the service breaker and mark it as being for the dishmachine. Advise all proper personnel of any problems and of the location of the service breaker. Replace the control box cover and tighten down the screws.

OPERATION INSTRUCTIONS

PREPARATION: Before proceeding with the start-up of the unit, verify the following:

1. The pan strainer and pump suction strainer are in place and are clean.

2. The overflow tube and o-ring are installed.

3. That the wash and rinse arms are screwed securely into place and that their endcaps are tight. The wash and rinse arms should rotate freely.

POWER UP: To energize the unit, turn on the power at the service breaker. The voltage should have been previously verified as being correct. If not, the voltage will have to be verified.

FILLING THE WASH TUB: Ensure that the delime switch is in the NORMAL position, and place the power switch into the ON position. The Tempstar should fill automatically and shut off when the appropriate level is reached (just below the pan strainer). Verify that the drain stopper is preventing the wash tub water from leaking excessively. There may be some slight leakage from the drain hole. Verify that there are no other leaks on the unit before proceeding any further. The wash tub must be completely filled before operating the wash tub is filled, the unit is ready for operation.

WARE PREPARATION: Proper preparation of ware will help ensure good results and less re-washes. If not done properly, ware may not come out clean and the efficiency of the dishmachine will be reduced. It is important to remember that a dishmachine is not a garbage disposal and that simply throwing unscraped dishes into the machine simply defeats the purpose altogether of washing the ware. Scraps should be removed from ware prior to being loaded into a rack. Pre-rinsing and pre-soaking are good ideas, especially for silverware and casserole dishes. Place cups and glasses upside down in racks so that they do not hold water during the cycle. The dishmachine is meant not only to clean, but to sanitize as well, to destroy all of the bacteria that could be harmful to human beings. In order to do this, ware must be properly prepared prior to being placed in the machine.

DAILY MACHINE PREPARATION: Refer to the section entitled "PREPARATION" at the top of this page and follow the instructions there. Afterwards, check that all of the chemical levels are correct and/or that there is plenty of detergent available for the expected workload.

WARM-UP CYCLES: For a typical daily start-up, it may be necessary to run the machine through 3 cycles to ensure that all of the cold water is out of the system and to verify that the unit is operating correctly. To cycle the machine, ensure that the power is on and that the tub has filled to the correct level. Lift the doors and the cycle light will illuminate. When the light goes out, close the doors, the unit will start, run through the cycle, and shut off automatically. Repeat this two more times. The unit should now be ready to proceed with the washing of ware.

WASHING A RACK OF WARE: To wash a rack, open the doors completely (being careful for hot water that may drip from the doors) and slide the rack into the unit.

Close the doors and the unit will start automatically. Once the cycle is completed, open the door (again watching for the dripping hot water) and remove the rack of clean ware. Replace with a rack of soiled ware and close the doors. The process will then repeat itself.

OPERATIONAL INSPECTION: Based upon usage, the pan strainer may become clogged with soil and debris as the workday progresses. Operators should regularly inspect the pan strainer to ensure it has not become clogged. If the strainer does, it will reduce the washing capability of the machine. Instruct operators to clean out the pan strainer at regular intervals or as required by work load.

SHUTDOWN AND CLEANING: At the end of the workday, close the doors. When the unit completes the cycle, turn the power switch to the OFF position and open the doors. Remove and clean the pan strainer. Remove the drain stopper from the tub and allow the tub to drain (NOTE: the wash tank water will be hot so caution is advised). Once the wash tub is drained, remove the pump suction strainer. Remove soil and debris from the strainer and set to the side. Unscrew the wash and rinse arms from their manifolds. Remove the endcaps and flush the arms with water. Use a brush to clean out the inside of the arms. If the nozzles appear to be clogged, use a toothpick to remove the obstruction. Wipe the inside of the unit out, removing all soil and scraps. Reassembly the wash and rinse arms and replace them in the unit. The arms only need to be hand tight, do not use tools to tighten them down. Reinstall the drain stopper and strainers and close the doors.

TROUBLESHOOTING SECTION

WARNING: Inspection, testing and repair of electrical equipment should only be performed by a qualified service technician. Many of the tests require that the unit have power to it and live electrical components be exposed. USE EXTREME CAUTION WHEN TESTING THE MACHINE.

Problem: Dishmachine will not fill after the door is close. Power "ON" light is illuminated.

- 1. Faulty rinse solenoid valve. Repair or replace valve as required.
- 2. Faulty door switch. Verify the wiring of the switch; if correct, replace the switch.
- 3. Fouled/faulty high level probe. Clean probe if fouled. If clean, and still not working, replace.

Problem: Dishmachine will not fill after the door is closed. Power "ON" light is not illuminated.

- 1. Service breaker tripped. Reset. If the breaker trips again, contact an electrician to verify the amp draw of the machine.
- 2. Machine not connected to power source. Verify that the machine has been properly connected to the power source.
- 3. Faulty power source. Verify the wiring of the switch; if correct, replace switch.

Problem: Dishmachine will not run after the door is closed. Power "ON" light is illuminated and the unit is filling.

1. Timer motor is faulty. Verify that the timer is rotating. If not, check to see that the motor is receiving power. If so, replace the motor and/or timer assembly.

- 2. Wash motor faulty/damaged. Verify that the wash motor is getting power. If so, replace the motor.
- 3. Wash motor contactor faulty. Check for continuity; if contacts are open, replace the contactor.

Problem: Dishmachine runs continuously in the wash cycle.

- 1. Machine is in Delime mode. Flip NORMAL/DELIME switch to NORMAL mode.
- Timer motor is faulty. Verify that the timer is rotating. If not, check to see that the motor is receiving power. If so, replace the motor and/or timer assembly.
- 3. Cam timer jammed by obstruction. Remove obstruction.

Problem: Wash or rinse heater does not work.

- 1. Faulty heater element. Check element for continuity; if open, replace the heater.
- 2. Faulty heater contactor. Replace the contactor.
- 3. Misadjusted/faulty thermostat(s). Verify operation and setting of thermostats, replace if necessary.

Problem: Dishmachine fill slowly and/or the rinse is weak.

- 1. Clogged or obstructed rinse arms. Remove and clean the rinse arms.
- 2. Low incoming water pressure. Adjust the water pressure regulator to ensure that there is 20 PSI flow.
- 3. Y-strainer is clogged. Clean out the Y-strainer.

Problem: Rinse water not reaching required temperature.

- 1. Faulty rinse heater. Check element for continuity; if open, replace heater.
- 2. Misadjusted/faulty thermostat(s). Verify operation and setting of thermostats, replace if necessary.
- 3. Rinse thermometer is defective. Replace thermometer.

Problem: Wash water is not reaching required temperature.

- 1. Faulty wash heater. Check element for continuity; if open, relace the heater.
- 2. Misadjusted/faulty thermostat(s). Verify operation and setting of thermostats, replace if necessary.
- 3. Wash thermometer is defective. Replace thermometer.

TROUBLESHOOTING SECTION

WARNING: Inspection, testing and repair of electrical equipment should only be performed by a qualified service technician. Many of the tests require that the unit have power to it and live electrical components be exposed. USE EXTREME CAUTION WHEN TESTING THE MACHINE.

Problem: Doors will not close completely.

1. Improper spring tension. Adjust spring tension as required by loosening (not removing) spring bolt nuts and adjusting the tension. Tighten nuts back when done.

- 2. Obstruction in door channel. Remove the obstruction.
- 3. Doors are not square with frame. Adjust the frame to accommodate the doors.

Problem: Water leaks at the wash pump.

- 1. Wash pump seal defective. Replace the seal.
- 2. Petcock or pump drain (if equipped) not shut/tight. Close or tighten.
- 3. Loose hoses (hose clamps) on the wash pump. Tighten the hose clamps.

Problem: Will not rinse during autocycle.

- 1. Defective rinse solenoid. Repair or replace the rinse solenoid as required.
- 2. Faulty fill microswitch. Replace microswitch.
- 3. No water to the machine. Verify that there is water a 20 PSI connected to the machine.

Problem: Dishes are not coming clean.

1. Machine temperatures are not up to the minimum requirements. Verify that incoming water, rinse water, and wash water match the required temperatures as listed on the machine data plate.

- 2. No detergent/too much detergent. Adjust detergent concentration as required for the amount of water held by the machine.
- 3. Solid dispenser canister is empty. Replace the canister.











SIDE MOUNTED CONTROL BOX ASSEMBLY (CONTINUED)

	-					
ITEM	QTY		DESCRIPTION		Mfg. No.	
1	1	Power Switch			5930-301-21-18	
2	1	Cycle Counter				5990-111-47-42
3	1	Normal/Delime Switch				5930-301-46-00
4	1	Power Light				5945-504-06-18
5	1	High Limit Light				5945-504-07-18
6	1	Cycle Light				5945-504-08-18
7	1	Decal, Control Box Cover				9905-021-64-41
8	1	Control Box Cover				5700-031-91-45
9	1	Relay, Top Mount, Control				5945-111-47-51
10	1	Fuse Holder				5920-401-03-14
11	1	Timer				5945-303-31-00
12	2	Contactor, 220V, 4 Pole (1	for Tempstar NB models)			5945-109-01-69
13	1	Liquid Level Control Board	· · ·			6680-200-08-21
14	2	Screw, 6-32 x 5/8" Long				5305-011-39-85
15	1	Wash Motor Contactor				5945-109-03-69
16	3	Screw, 10-32 x 3/8" Panhe	ad			5305-173-26-00
17		See Below				N/A
18	1	3 Pole Terminal Block				5940-011-48-27
19	1	Control Box Weldment				5700-041-47-55
20		See Below				N/A
21		See Below				N/A
22	9	Screw 6-32 x 3/8" Long				5305-171-02-00
23	3	Locknut 10-24 with Nylon	Insert			5310-373-01-00
24	1	Ground Lug				5940-200-76-00
Other co	ompone	nts not shown:				
Connect	or, 1/2",	90 DEG Plastic	5975-011-45-14			
Connect	or, 3/4",	45 DEG Plastic	5975-011-47-74			
Connect	or, 1/2",	45 DEG Plastic	5975-011-45-23			
Connect	or, 1/2",	90 DEG Metal	5975-111-01-00			
Gromme	et, 1/2" C	DD x 3/8" ID	5325-011-46-73			
Gromme	et, 7/8" S	plit	5975-200-40-00			
Plug Decel D	Alima /N	ormol	5975-011-47-81			
Decal, D	1 1 2 1 ⁴	onnai S	9905-011-34-90			
Decal, C	Conner (onductors	9905-011-47-35			
Decal, C	Ground		9905-011-86-86			
		The following	components are used only	in the 460 Vo	It control b	oox.
						Exchange item #15 with the
	lt	em #20	Item #21			following:
	Circuit E	reaker, 2 AMP	Transformer			Wash Motor Contactor
	5925	5-111-64-18	5950-111-65-93		/	5945-002-14-78
					~ /	11 1147
					₹₹¥	Item #17
					Ngh	5945-002-14-79
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TOP MOUNTED CONTROL BOX ASSEMBLY (CONTINUED)

				· · · · ·
ITEM	QTY	E	DESCRIPTION	Mfg. No.
1	1	Control Box Weldement		5700-002-29-76
2	1	Ground Lug		5940-200-76-00
3	1	Terminal Block		5940-011-48-27
4	1	Contactor, Wash Motor 208-23	30	5945-109-03-69
5	1	Relay		5945-111-47-51
6	1	Counter		5990-111-47-42
7	1	Plate, Counter Mounting		5700-002-37-71
8	1	Decal, Control Box		9905-002-31-85
9	1	Light, Yellow		5945-111-44-44
10	1	Light, Green		5945-111-44-43
11	1	Light, Red		5945-111-44-45
12	1	Temperature Gauge, Wash 96	5" Lead	6685-111-68-48
13	1	Temperature Gauge, Rinse 48	" Lead	6685-111-68-49
14	1	Switch, Power		5930-002-29-13
15	1	Timer		5945-303-31-00
16	1	Liquid Level Control Board		6680-200-08-21
17	1	Bracket, Liquid Level Control E	Board	5700-002-13-22
18	2	Heater Contactors		5945-109-01-69
19	1	Magnetic Reed Switch		5930-011-47-50
20	1	Normal Delime Switch		5930-301-21-18
21	1	Fuse Holder		5920-401-03-14
Wash Mo Overload	otor Cor	itactor	5945-002-14-78 5945-002-14-79	
Other co	ompone	nts not shown:		
Cover, To	op Mour	nt Control Box	5700-002-23-03	
Decal, W	arning-l	Disconnect Power	9905-100-75-93	
Screw, 1	0-32 X 3	8/8" Phillips Truss Head	5305-173-12-00	
Lea. Cor	trol Box	<pre>4</pre>	5700-002-33-05	
Screw, 1	/4"-20 x	2 3/4" Hex Head Cap	5305-274-13-00	
Washer,	1/4"-20	ID S/S	5311-174-01-00	
Locknut,	1/4"-20	S/S Hex w/Nylon Insert	5310-374-01-00	
0	4 (0"			
Connecto	or, $1/2$, or $3/4$ "	45 DEG Plastic	5975-011-45-14 5975-011-47-74	
Connecto	or. 1/2".	45 DEG Plastic	5975-011-45-23	
Connecto	or, 1/2",	90 DEG Metal	5975-111-01-00	
Grommet, 1/2" OD x 3/8" ID			5325-011-46-73	
Grommet, 7/8" Split			5975-200-40-00	
Plug, 1/2"			5975-011-47-81	
Decal, D		onnal S	9905-011-34-96 9905-101-12-66	
Decal, L	onner C	conductors	9905-011-47-35	
Decal, G	round		9905-011-86-86	
Associa	ted Har	dware:		
Locknut,	6-32 S/	S Hex w/Nylon Insert	5310-373-03-00	
Locknut,	10-24 5	S/S Hex w/Nylon Insert	5310-373-01-00	
Screw, 6	-32 x 5/	<u>გ</u>	5305-011-39-85	

5305-171-02-00

Screw, 6-32 x 3/8" Phillips Round Head



SDS SIDE MOUNTED CONTROL BOX ASSEMBLY (CONTINUED) ITEM QTY DESCRIPTION Mfg. No. Control Box Cover Weldment 5700-021-60-43 1 1 2 9905-021-50-13 1 Decal, Control Box Cover 3 1 Light, Amber 5945-504-06-18 4 1 Light, Green 5945-504-08-18 5 1 Light, Red 5945-504-07-18 6 1 Manual Wash Switch 5930-301-46-00 7 2 Screw, 4-40 x 1/4" Phillips Panhead 5305-011-36-92 8 1 Cycle Counter 5990-111-47-42 9 1 Wash Switch 5930-301-21-18 10 Screw, 10-32 x 3/8" Phillips Panhead 4 5305-173-04-00 11 1 Cover, Electrical Box Panel 5700-011-49-23 12 1 Frame, Electrical Box Cover Panel 5700-011-49-22 Board, PC Rinse 13 1 6680-111-50-55 14 1 Board, PC Detergent 6680-111-50-54 15 8 Screw, 6-32 x 3/8" Long 5305-171-02-00 16 1 Bracket, PC Board 5700-011-49-24 17 Lockwasher, Internal Tooth #10 4 5311-011-59-51 18 4 Locknut, 10-24 with Nylon Insert 5310-373-01-00 19 Control Box Weldment 1 5700-041-47-55 2 20 Relay, Top Mount, Control 5945-111-47-51 Contactor, 220V, 4 Pole (1 for Tempstar NB models) 21 2 5945-109-01-69 22 Timer 1 5945-303-31-00 Liquid Level Control Board 23 1 6680-200-08-21 24 1 Contactor, 220V, 2 Pole 5945-109-03-69 25 1 Transformer 5950-400-01-35 Ground Lug 26 5940-200-76-00 1 27 1 3 Pole Terminal Block 5940-011-48-27 Other components not shown: Connector, 1/2", 90 DEG Plastic 5975-011-45-14 Connector, 3/4", 45 DEG Plastic 5975-011-47-74 Connector, 1/2", 45 DEG Plastic 5975-011-45-23 Connector, 1/2", 90 DEG Metal 5975-111-01-00 Grommet, 1/2" OD x 3/8" ID 5325-011-46-73 Grommet, 7/8" Split 5975-200-40-00 Plug, 1/2" 5975-011-47-81 Decal, Delime/Normal 9905-011-34-96 Decal, L1, L2, L3 9905-101-12-66 Decal, Copper Conductors 9905-011-47-35 Decal, Ground 9905-011-86-86 Exchange item number The following components are used only in the 460 Volt control box. 24 with the following: Wash Motor Contactor 5945-002-14-78 Exchange item number 25 Circuit Breaker, 2 AMP with the following: 5925-111-64-18 Fuse Holder Overload (not shown) Transformer 5940-401-03-14 5945-002-14-79 5950-111-65-93 () ⊕ 0 0 0 \Box

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CANTILEVER ARM/DOOR ASSEMBLIES (CONTINUED)

ITEM	QTY	DESCRIPTION	Mfg. No.
1	2	Bracket, Cantilever Support	5700-031-88-00
2	6	Wear Button .50 Dia	5700-011-88-01
3	2	Yoke Assembly	5700-000-75-77
4	2	Clevis Pin	5315-700-01-00
5	4	Washer, Nylon	5311-369-03-00
6	2	Bushing	3120-100-03-00
7	2	Cotter Pin 3/32" x 3/4"	5315-207-01-00
8	2	Yoke	5700-000-75-78
9	2	Space Washer	5311-156-02-00
10	2	Nut, 3/8"-16 S/S Hex Locking	5310-256-04-00
11	2	Spring Pin, 1/4" x 1 1/8"	5315-407-06-00
12	1	Cantilever Arm	5700-031-50-67
13	2	Rod, Spring	5700-002-29-38
14	2	Spring	5340-109-02-00
15	2	Bolt, Canlilever Hanger Eye 3/8"-16	5306-956-05-00
16	2	Washer, 3/8" ID x 7/8" OD S/S	5311-176-01-00
17	4	Nut, 3/8"-16 S/S Hex	5310-276-01-00
18	2	Screw, 1/4"-20 x 3/4" Lg. S/S	5305-274-04-00
19	4	Washer, 1/4" Stainless Steel	5311-174-01-00
20	2	Spacer, PB Bolt	5700-000-29-40
21	4	Locknut, 1/4"-20 S/S Hex w/Nylon Insert	5310-374-01-00
22	2	Screw 1/4"-20 x 1 1/2" lg stainless Steel	5305-274-23-00
23	2	Sleeve, Cantilever Arm	5700-000-85-69
24	2	Connector, Cantilever Arm	5700-011-90-99
25	2	Cantilever Arm Plug	5340-011-35-00
26	1	Door, Front (Complete Assembly)	5700-002-30-89
26A	1	Door Only, Front	5700-002-29-83
27	6	Door, Guides	5700-111-33-59
28	1	Door, Left Side (Complete Assembly)	5700-002-30-87
28a	1	Door Only, Left Side	5700-002-29-86
29	1	Door, Right Side (Complete Assembly)	5700-002-30-88
29A	1	Right Door Weldment with Studs	5700-002-29-85
30	1	Magnet, Reed Switch	5930-111-51-68
31	2	Locknut, 8-32 S/S Hex w/Nylon Insert	5310-272-02-00



TUB FRONT ASSEMBLY (CONTINUED)/WASH TANK HEATING SYSTEM

ITEM	QTY	DESCRIPTION	Mfg. No.
1	8	Screw, 1/4"-20 x 1/2" Long	5305-274-02-00
2	8	Locknut, 1/4"-20 with Nylon Insert	5310-374-02-00
3	8	Washer, 1/4"-20 ID, S/S, Flat	5311-174-01-00
4	1	Frame Weldment	5700-031-48-01
5	4	Bullet Foot	5340-108-01-03
6	1	Discharge Hose	5700-011-88-24
7	2	Hose Clamp	4730-719-01-37
8	1	Gauge Bracket (Side Mount Control Box Only)	5700-011-48-08
9	1	Thermometer, Wash (Side Mount Control Box Only)	6685-111-40-38
10	1	Thermometer, Rinse (Side Mount Control Box Only)	6685-111-40-39
11	2	Locknut, 10-24 with Nylon Insert	5310-373-01-00
12	1	Decal, Gauge Bracket (Side Mount Control Box Only)	9905-011-50-88
13	1	Thermostat, High Limit	5930-121-71-36
14	2	Thermostat Bracket	5700-011-73-72
15	1	Thermostat, Regulating	5930-121-67-72
16	1	Decal, High Limit	9905-011-84-32
17	1	Decal, Thermostat Regulating	9905-011-84-31
18	4	Locknut, 6-32 with Nylon Insert	5310-373-03-00
19	1	Fitting, 1/4" Imperial Brass	5310-924-02-05
20	1	Wash Heater Gasket	5330-011-47-79
21	4	Lockwasher, 5/16", S/S, Split	5311-275-01-00
22	4	Nut, Hex, 5/16"18, S/S	5310-275-01-00
23	1	Probe, High Water	6680-200-02-68
24	1	Lower Wash Manifold Weldment	5700-031-46-00
25	1	Nipple	5700-021-34-84
*26	1	Clamp, Hose 5 5/8" to 6"	4730-011-34-90
*27	1	Clamp, 1/8" Nylon	5975-601-10-15

WASH TANK HEATING SYSTEM EXPLANATION

The wash tank heater system is electrically connected in the circuit so that it is dependent upon the dishwasher being properly filled with and maintaining a safe water level. The system is made up of two thermostats (mounted in the junction box behind the front panel), a water level probe (mounted in the wash tank), the wash heater contactor (mounted in the control box), and the wash heater itself.

Once the water level control (WL) senses water contact (conductivity) through the water level probe (HP), it energizes the wash heater contactor (R2). This closes the contacts to the wash heater (H2) to provide energy to heat the water in the tank.

The wash heater thermostat (TS2), which senses water temperature through a capillary bulb in the tank, will maintain tank temperature. When the water temperature reaches 155 degrees F. an N. C. contact in the thermostat opens which de-energizes the wash heater contactor (R2). This shuts down the wash tank heater (H2).

When the water temperature falls below 150 degrees F. the contacts in the thermostat will close and the the wash tank heater (H2) will energize to maintain the water temperature at 155 degrees nominal.

The high limit thermostat (HTLS) with a direct sensing probe prevents damage to the wash tank heater due to over-temperature conditions. Should the wash tank heater (H2) reach a temperature of 210 degrees F., a N.C. contact in the high limit thermostat (HLTS) opens which de-energizes he wash heater contactor (R2). This shuts down the wash tank heater (H2). When this occurs the heater overload light (E2, amber) will come on to indicate a temperature problem.

Once the dishwasher has been filled to the correct level, the wash tank heater should operate automatically.







WASH MOTORS

The Tempstar models covered in this manual come supplied with various wash motor assemblies (a wash motor assembly includes the wash motor and the pump end), depending on the characteristics of the machine. To ensure that you order the correct wash motor assembly for the model you are servicing, please refer to the following table:

<u>Model</u>	<u>Volts</u>	<u>Hz</u>	<u>Phase</u>	Wash Motor Assembly	
Tempstar	208	60	1	6105-121-35-18	
Tempstar	230	60	1	6105-121-35-18	Important note: When servicing a wash motor, it
Tempstar	208	60	3	6105-121-35-18	is important to refer to the wiring schematic found
Tempstar	230	60	3	6105-121-35-18	on the motor, to ensure that the motor is wired cor-
Tempstar	460	60	3	6105-121-64-21	rectly. Different manufacturers of motors may not use the same wire color codes and therefore, your
Tempstar SDS	208	60	1	6105-121-35-18	new motor, which may have been built by someone
Tempstar SDS	230	60	1	6105-121-35-18	different than who built your original motor, may not
Tempstar SDS	208	60	3	6105-121-35-18	connect using the same wires. Always refer to the
Tempstar SDS	230	60	3	6105-121-35-18	wiring diagrams on the motor you are installing. If
Tempstar SDS	460	60	3	6105-121-64-21	the motor you are installing has had the schematic removed, contact Jackson MSC immediately for
Tempstar NB	208	60	1	6105-121-35-18	technical support.
Tempstar NB	230	60	1	6105-121-35-18	
Tempstar NB	208	60	3	6105-121-35-18	
Tempstar NB	230	60	3	6105-121-35-18	
Tempstar NB	460	60	3	6105-121-64-21	

Details concerning the Tempstar models wash motor assemblies:

The pumps for the Tempstar models covered in this manual are close coupled centrifugal pumps. The pump casings are made from iron and may be prone to oxidation if still water is left in the casing for an extended amount of time. It is recommended that if the unit is not to be used for such a period, such as for renovation of the installation site, that the casing be drained completely. The impeller is made from stainless steel to resist corrosion and is threaded onto the pump shaft. Water is prevented from travelling down the shaft into the motor by use of a mechanical-type shaft seal. As with all mechanical seals, care must be taken not to damage the sealing surfaces. Mechanical seals should only be replaced by trained service personnel.

The motors chosen to be used on the Tempstar models covered in this manual all have open drip proof construction and are rated with jet pump service factors for continuous duty operation. The motors are all 3/4 HP, 60 Hz, and operate at 3450 RPM.

All motors installed on Tempstar dishmachines have overload protection. Single phase motors will have built-in overload protection and will be capacitor start units. Three phase motors will have external overload protection located in the control box. The overload protection is to protect the motor from over current damage due to electrical or mechanical failure.

It is of vital importance that it be stressed that efficient operation of the wash motor assembly is essential in proper ware washing. The pump must never be ran without water in the casing, for this causes a build-up of heat which can damage the casing gasket and cause the pump to leak. A leaking pump will cause the water level to lower in the machine and will have two detrimental effects: (1) air will be pumped through the wash arms, reducing the dishmachine's ability to wash, and (2) the liquid level control circuit will energize more often, using more water to maintain wash tank level; this will increase the overall cost of operating the unit.

THERMOSTATS/WASH HEATERS/RINSE HEATERS

This unit has a probe-direct sensing type thermostat with fixed set point and adjustable range for both wash and booster tank heat regulating. The same type thermostat is used as the high limit sensor for the wash tank heater. It operates a precision single double throw switch through a lever for close tolerance narrow differential switching capability. The unit has screw driver adjustment and front connect terminals and is mounted by 7/16"-24 thread, Loxit fitting for easy removability and serviceability. The thermostat range is from 140°F to 240°F with a maximum bulb exposure temperature of 300°F. Unit is listed at 12.5 amps at 24/120 VAC.

There are three (3) thermostats on the dishwasher. One monitors the wash tank temperature, the second monitors the rinse water temperature with the third protecting the heater element. Although all are identical in appearance there are different replacement part numbers depending on the function of the thermostat.

Calibration:

The hi-limit thermostat is used to protect the heater element in the event of a run away regulating thermostat or a dry fire situation. It is set for 210°F +0 or -10°F with a fixed set point. This part is not adjustable.

The wash tank regulating thermostat will maintain the correct wash water temperature to meet NSF requirements. These specify that the wash be no lower than 150°F. It is set at the factory to energize the tank heater at 155°F and de-energize at 167°F.

The rinse tank regulating thermostat will maintain the correct rinse water temperature to meet NSF requirements. It is factory set to energize the rinse tank heater at 195°F and de-energize at 200°F.

5930-121-71-36
5930-121-67-72
5930-121-71-29

To convert from the old style "bayonette" thermostats, you will need these kits:

Kit, Thermostat, High Limit with Bracket	6401-021-83-86
Kit, Thermostat, Wash Tank with Bracket	6401-021-83-90
Kit, Thermostat, Rinse Tank with Bracket	6401-021-83-83



The Tempstar models covered in this manual come supplied with various heaters, depending on the characteristics of the machine. To ensure that you order the correct heater for the model you are servicing, please refer to the following table:

					40°F Rise	70°F Rise
<u>Model</u>	<u>Volts</u>	<u>Hz</u>	<u>Phase</u>	Wash Heater	Rinse Heater (12 KW)	Rinse Heater (14 KW)
Tempstar	208	60	1	4540-121-47-39	4540-121-47-40	4540-121-63-38
Tempstar	230	60	1	4540-121-47-39	4540-121-47-40	4540-121-63-38
Tempstar	208	60	3	4540-121-47-39	4540-121-47-40	4540-121-63-38
Tempstar	230	60	3	4540-121-47-39	4540-121-47-40	4540-121-63-38
Tempstar	460	60	3	4540-121-65-99	4540-100-01-15	4540-121-63-39
Tempstar SDS	208	60	1	4540-121-47-39	4540-121-47-40	4540-121-63-38
Tempstar SDS	230	60	1	4540-121-47-39	4540-121-47-40	4540-121-63-38
Tempstar SDS	208	60	3	4540-121-47-39	4540-121-47-40	4540-121-63-38
Tempstar SDS	230	60	3	4540-121-47-39	4540-121-47-40	4540-121-63-38
Tempstar SDS	460	60	3	4540-121-65-99	4540-100-01-15	4540-121-63-39
Tempstar NB	208	60	1	4540-121-47-39		
Tempstar NB	230	60	1	4540-121-47-39		
Tempstar NB	208	60	3	4540-121-47-39		
Tempstar NB	230	60	3	4540-121-47-39		
Tempstar NB	460	60	3	4540-121-65-99		



When servicing plumbing components, take care not to damage the threads of each individual item. Damaged threads can cause leaks and loss of pressure, which could adversely effect the performance of the Tempstar dishmachine. It is strongly recommended that teflon thread tape, used in conservative amounts, be applied to threads when joining components together. It is not advised to use thread sealing compounds, sometimes referred to as "pipe dope". Compounds can be ejected from the threads during the tightening process and become lodged in key components, thereby rendering them useless. Some of the components include the solenoid valve and the pressure gauge isolation ball valve.

INCOMING PLUMBING/OUTLET PLUMBING ASSEMBLY

ITEM	QTY	DESCRIPTION	Mfg. No.
1	1	Water Pressure Regulator, 3/4" NPT	6685-011-58-22
2	1	Valve, Ball, 1/4" NPT	4810-011-72-67
3	1	Gauge, Pressure, 0-100 PSI	6685-111-88-34
4	2	Nipple, Close, 3/4" NPT	4730-207-34-00
5	1	Tee, Brass, 3/4" NPT x 3/4" NPT x 1/4" NPT	4730-211-04-00
6	1	Valve, Solenoid, 3/4" NPT	4810-100-03-18
7	1	Nipple, Brass, 3/4" NPT x 2" Long	4730-207-46-00
8	1	Elbow, 3/4" NPT, Brass, Street	4730-206-04-34
9	3	Union, 3/4" NPT, Brass	4730-212-05-00
10	6	Adapter, 3/4" Male	4730-401-11-01
11	1	Tube, Copper, 3/4" x 36 1/4" Long	5700-011-58-26
12	2	Elbow, 3/4" - 90 Degree, #707 Copper	4730-406-16-01
13	2	Adapter, 3/4", 604-2	4730-401-10-01
14	1	Tube, Copper, 3/4" x 3 3/4" Long	5700-011-58-28
15	1	Vacuum Breaker, 3/4" NPT	4820-300-08-00
16	1	Tube, Copper, 3/4" x 30 3/4" Long	5700-011-82-28
17	1	Elbow, 3/4" NPT,90 DEG Brass	4730-206-13-00
18	1	Tube, Copper, 3/4" x 2 7/8" Long	5700-011-76-76



TEMPSTAR SDS INCOMING PLUMBING ASSEMBLY



ITEM	QTY	DESCRIPTION	Mfg. No.
1	1	Gauge, Pressure, 0-100 PSI	6685-111-88-34
2	1	Valve, Ball, 1/4" NPT	4810-011-72-67
3	1	Tee, 1/4" x 1/4" x 1/4" Brass	4730-011-51-20
4	2	Nipple, 1/4" Close Brass	4730-207-02-00
5	1	Regulator, Pressure	6685-111-48-54
6	1	Gauge, Pressure, 0-100 PSI 1/8"	6685-011-48-32
7	1	Reducer, 1/4" Male x 3/8" Female Brass	4730-011-59-40
8	1	Fitting, 3/8" Y-Branch	4730-111-58-21
9	1	Valve, Solenoid, 3/4" NPT	4810-100-03-18
10	2	Nipple, Close, 3/4" NPT	4730-207-34-00
11	1	Tee, Brass, 3/4" NPT x 3/4" NPT x 1/4" NPT	4730-211-04-00
12	1	Water Pressure Regulator, 3/4" NPT	6685-011-58-22

3/4" SOLENOID VALVE & 3/4" NPT VACUUM BREAKER REPAIR PARTS KITS





WASH & RINSE ARM/MANIFOLD ASSEMBLIES (CONTINUED)			
ITEM	QTY	DESCRIPTION	Mfg. No.
1	1	Upper Manifold	5700-031-34-82
2	4	Nut, 3/8"-16 S/S Hex	5310-276-01-00
3	4	Lockwasher 3/8	5311-276-01-00
4	2	Bolt, Hex 3/8-16 x 7/8" lg	5306-011-36-95
5	2	O Ring	5330-111-35-15
6	1	Positioning Bracket, Manifold Tube	5700-011-34-63
7	1	Tube, Wash Manifold	5700-131-15-07
8	2	Gasket, Manifold	5700-111-35-03
9	2	Wash Arm	5700-021-35-93
10	5	Locknut, 1/4"-20 S/S Hex w/Nylon Insert	5310-374-01-00
11	2	Clip, Retaining, Rinse Head Bushing	5340-112-01-11
12	4	Rinse Arm Washer	5330-011-42-10
13	2	Bushing, Rinse Head	5700-021-33-84
14	2	Rinse Arm	5700-031-88-86
15	4	Plug, Rinse Arm, Stainless Steel	4730-111-60-41
16	1	Lower Wash Manifold	5700-031-46-00
17	2	Bearing Assembly	5700-021-35-97
17a	1	Hub Nut	5700-011-35-94
17b	1	Hub Bushing	5700-011-35-96
17c	1	Hub Spindle	5700-011-35-95
17d	1	Ring, Retainer	5340-011-37-81
17e	15	3/16" Stainless Steel Ball	3120-100-02-00
17f	20	1/8" Stainless Steel Ball	3120-011-37-82
18	1	Rinse Manifold Assembly	5700-021-47-61
19	2	Bolt, Hex 3/8-16 x 1 1/4" lg	5305-276-10-00





TEMPSTAR SDS DISPENSER ASSEMBLY (CONTINUED)

ITEM	QTY	DESCRIPTION	Mfg. No.
1	3	Screw, 6-32 x 3/4" Long	5305-171-07-00
2	1	Lockwasher, #6, External Tooth	5311-271-02-00
3	1	Rinse Cylinder Bracket	5700-011-59-72
4	1	Rinse Additive Screen	5930-011-48-66
5	1	Rinse Cylinder Cover	9515-011-49-01
6	1	Rinse Additive Cylinder	9515-031-49-00
7	1	Decal, Rinse Additive	9905-011-59-80
8	1	Rinse Aid Nozzle	4730-011-50-03
9	1	Detergent Screen	5335-011-48-65
10	1	Detergent Spray Nozzle	4730-011-50-04
11	1	Detergent Flush Pipe	5700-011-51-52
12	1	Decal, Detergent Additive	9905-011-59-79
13	3	Light, Red	5945-011-48-96
14	1	Motor, Feeder Pump	6105-111-51-02
15	1	Dispenser Molding	9515-031-48-62
16	1	Sonalert	5945-011-48-97

CAM HOLDER ASSEMBLY



ITEM	QTY	DESCRIPTION	Mfg. No.
17	2	Locknut, 4-40	5310-279-06-00
18	1	Lockwasher, 4-40	5311-011-59-71
19	1	Screw, 4-40 x 3/4" Long	5305-011-59-64
20	1	Spring, .023 Wire	5340-111-58-02
21	1	Magnet, 3/16" x 1" Long Bar	5930-011-48-81
22	1	Holder, Cam Magnet	5340-011-48-80
23	1	Cam Holder	5340-011-59-62
24	1	Switch, 5A	5930-011-48-83
25	2	Screw, 4-40 x 3/8" Long	5305-011-59-70



TEMPSTAR SDS DISPENSER ASSEMBLY (CONTINUED)			
ITEM	QTY	DESCRIPTION	Mfg. No.
30	2	1/4" NPT Vacuum Breaker	4810-011-51-62
31	2	Elbow, 3/8" Comp. X 1/4" NPT, 90 Degrees, Brass	4730-111-58-18
32	2	Nipple, 1/4" x 6" Brass	4730-011-79-29
33	1	Plua, Hunky	5975-011-59-49
34	2	Valve Solenoid	4810-011-48-99
35	1	Grommet 1 25" Ω D x 1 00" L D	5975-111-58-01
36	1	Fitting Liquid Tight	5975-011-49-03
27	12	Scrow 10.22 x $1/2"$ Long	5375-011-49-00
20	12	Jockwashar #10 External Tooth	5303-011-39-30
30	12	LOCKWasher, #10 External rooth	5311-273-03-00
LOWER	53 52 51 DISPER	NSER ASSEMBLY 50 49 48 47 46	
ITEM	QTY	DESCRIPTION	Mfg. No.
39	1	Decal, Dispenser Front	9905-021-50-18
40	1	Dispenser Mounting Plate	5700-031-50-12
41	2	Screw, 6-32 x 3/8" Long	5305-171-07-00
42	1	Switch, Float	5930-011-48-98
/2	1	Reservoir	9515-031-78-63
40	2	Serow 10.22 x 1/2" Long	E20E 044 20 20
44	3	Sciew, 10-52 X 1/2 LONG	5305-011-39-30
45	3	Lockwasher, #10 External Looth	5311-273-03-00
46	1	Reservoir Clip	5700-021-49-26

TEMPSTAR SDS DISPENSER ASSEMBLY (CONTINUED)

ITEM	QTY	DESCRIPTION	Mfg. No.
47	1	Jam Nut, 1/8"-27	5310-011-58-00
48	1	Rinse Additive Pickup Tube	5700-011-50-14
49	1	Ferrule Nut, Chemical Tube Connector	4730-609-16-00
50	1	Panel, Dispenser Sliding Cover	5700-011-51-19
51	1	Fitting, Liquid Tight	5975-011-49-03
52	1	Elbow, 1/4" NPT x 3/8" Comp.	4730-111-59-34
53	1	Insert, 3/8" Tubing P/P	4730-111-59-35
54	1	Thermal Barrier Box Assembly	5700-021-48-14
55	1	Thermal Box Top Weldment	5700-021-50-64
56	1	Thermal Box Bottom Weldment	5700-021-50-65
57	1	Foam, 1" Thick	5640-011-49-07
58	3	Screw, 10-32 x 3/8" Phillps Pan Head	5305-173-26-00
59	3	Lockwasher, #10 Internal Tooth	5311-273-03-00
60	1	Valve, Check	4820-111-51-14
61	1	Fitting, Outlet Elbow	4820-111-51-18
62	1	Nut, P/P For 1/8" Tubing	4730-011-59-45

Other components not shown: Sensor, Detergent Kit, Detergent Sensor Mounting Gasket, 1/8" Thick

6680-011-49-83 4730-111-51-17 5330-021-51-08



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- СВ
 - FS DISPENSER FUSE BLOCK

9905-002-06-72

TIMER MOTOR

ТΜ



9905-002-53-70a





Tempstar SDS ELECTRICAL DIAGRAM 460 volt - 60 hertz - three phase

LEGEND



TEMPSTAR SDS DISPENSER SCHEMATIC



9905-011-48-52