

Annual check for eikon® e4s

Task(s): Annual technician PM check
Frequency: Annual
Time to complete: 45 min - 3 hrs 40 min
Model(s): Merrychef eikon® e4s

Safety information:

Please adhere to all Merrychef safety aspects at all times.



Electricity



Manual handling



Hot liquids

Annual PM check procedure

Tools

Note*: Please refer to e4s service manual for full details on all tests to be carried out by a trained Merrychef technician.

1. Microwave leak detector
2. Paper towel
3. Microwaveable bowl of water
4. 2x Ceramic covers x2 DV0666
5. 2x Cover gaskets DV0692
6. Door gasket SA3113
7. Air filter SA390
8. Lower impinger plate PSA266
9. Wire rack DV0275
10. Top impinger plate PSA2101




A. Task

<p>1</p> <p>Check the oven for obvious signs of damage and cleanliness. Switch the oven on and off, allow to cool down.</p>	<p>2</p> <p>Visually check the cleanliness/condition of the power supply cable/gland, oven casing, cavity, ceramic covers and door for signs of wear, damage & distortion, report any defects as required, Check the steam vent and clean. Report defects and advise on replacement parts as required.</p>	<p>3</p> <p>Remove the air filter located at the bottom of the oven, clean/Report defects and advise on replacement as required SA390.</p>	<p>4</p> <p>Remove the diffuser situated at the rear of the oven, and the wire rack at the base of the oven clean/replace if required.</p> <p><i>Note if the diffuser is removable then a new diffuser kit will need to be fitted also check that the new PTFE feet have been fitted to the rear of the cavity as highlighted below, see separate advisory for fitting instructions. Report defects and advise on replacement as required.</i></p>
<p>New diffuser in place PSA1283.</p>	<p>New thermocouple PSA1273</p>	<p>The metal bracket in the highlighted image can cause arcing and will need to be upgraded to the new style and should be upgraded ASAP. Advise on replacement as required.</p>	
<p>5</p> <p>Undo the fasteners securing the top impinger plate and remove, inspect for signs of damage, clean/report defects and advise on replacement as required PSA1240.</p>	<p>6</p> <p>Remove all consumables, inspect for cleanliness and check for any signs of damage, Report defects and advise on replacement as required Lower impinger plate PSA266 Wire rack DV0714.</p>	<p>7</p> <p>Inspect both the LHS & RHS stirrer covers and gaskets for cleanliness and ensure there are no cracks or any signs of damage to both, Report defects and advise on replacement as required 2x Ceramic covers DV0060 2x Cover gaskets DV0692.</p>	<p>8</p> <p>Check the door seal and ensure it is intact, not hanging loose or any sections broken away. Report defects and advise on replacement as required SA3113.</p>


B. Task

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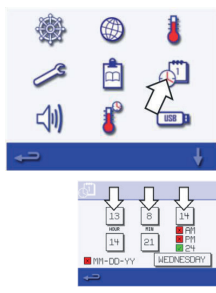
Switch the oven on, record the Serial Number and check the time and date are correct, check the firmware and update if required (Follow the process in the IOM Page 61) Press top right-hand corner on the screen to access the key board screen.

10



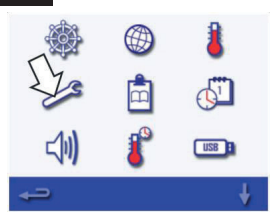
Enter the password **MANAGER** to access the settings menu.

11



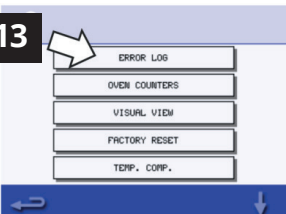
Ensure the date, day and time are set correctly and select OK. Refer to IOM page 84 for details.

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Press the spanner/tool symbol and enter the password **SERVICE** to access the service screen.

13



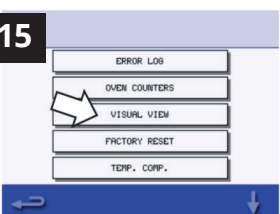
Check the "Error Log" for details of any logged appliance errors, reference any errors logged with the service manual Page 94.

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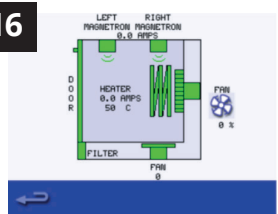
Select oven counters and reference the check sheet below for recommended replacements, advise the customer on actions required.

15



Select the visual view to perform initial tests.

16



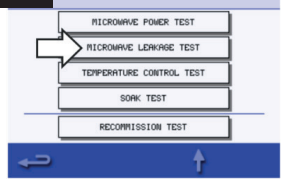
In visual view select the components in the next section, they will turn red when operating.

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1. Check cooling fan operation & record
2. Check hot air motor rotation and speed control & record
3. Check magnetron current & record
4. Check heating element current & record
5. Check door activation & record

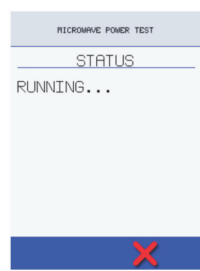
Check all components in accordance with the service manual and recommended replacements as stated below.

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Exit out of visual view, place bowl with 275 ml of cold water in cavity and select Microwave Leakage test.

19




While the test is running hold the test probe at right angles to the oven and hold about 50mm away from the surface.

20



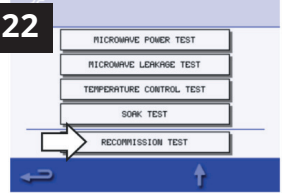
Test the areas marked in yellow above. Level must be 5mW/cm2 or lower. Record.

21




Test the areas marked in yellow above. Level must be 5mW/cm2 or lower. Record.

22



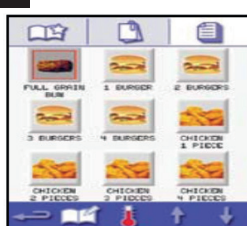
Finally, with the bowl of water still inside the cavity, select the recommission test (if the recommission test is greyed out, it means the oven is above the desired temperature).

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Follow the onscreen instruction and record result. Carefully remove bowl and discard water.

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Record serial number of unit and ensure oven heats up and cooks one item of food.

Planned preventative maintenance schedule for Merrychef eikon® e4s 50Hz/60Hz commercial combination oven			Daily	12 months	24 months	48 months	Part no.	Comments
Item	Description	Commissioning	Operator	OCIE check				
1	Check installation and surroundings as per installation instructions	✓	✓	✓	✓	✓		
2	Check cook baskets for damage and replace if required.	✓	✓	✓	✓	✓		
3	Check oven cook plate and rack	✓	✓	✓	✓	✓		
4	Check air filter is clean and not clogged	✓	✓	✓	✓	✓	SA3127	Clean as required, optional replacement
5	Check ceramic cover for cracks or damage **				✓		PSR122	Replace 24 months or when damaged
6	Visually check oven for damage	✓	✓	✓	✓	✓		
7	Check oven accessories	✓		✓	✓	✓		Replace when required or missing
8	Check condition of mains lead and plug			✓	✓			Replace mains lead if damaged
9	Clean oven as per user instructions			✓	✓	✓		
10	Check and clean steam vent every 12 months			✓	✓	✓	SA3132	Replacement out side of PPM optional replacement
11	Check door seal condition and replace as required **			✓	✓	✓	PSA3113	Replace 24 months or when damaged
12	Check touchscreen condition and operation		✓					
13	Check door operation			✓	✓	✓		
14	Check on/off switch operation				✓	✓		
15	Check touch screen condition and operation (calibrate if required)		✓	✓	✓	✓		
16	Review & replace touch screen overlay as necessary **		✓	✓	✓	✓	DR0011	Replace overlay 24 months or when damaged
17	Check and record oven counter screen		✓	✓	✓	✓		
18	Check & record amp draw (heating element and magnetron)	✓		✓	✓	✓		
19	Check door hinges ***				✓	✓	PSR101	Replace either at 150,000 cycles or 48 months, whichever comes first. Optional.
20	Check cooling fan operation			✓	✓	✓		
21	Check oven temperature calibration			✓	✓	✓		Calibrate with a calibrated thermocouple or pyrometer
22	Check all internal electrical connections (adhere to all safety aspects of the oven as per the ovens safety guide)			✓	✓	✓		
23	Unplug and isolate (LOTO)			✓	✓	✓		
24	Check all internal electrical connections (adhere to all safety aspects of the oven as per the ovens safety guide)			✓	✓	✓		
25	Check stirrer motor is rotating			✓	✓	✓		
26	Replace magnetrons ***					✓	P30Z1415 (x2)	1,500Mag Hours or 48 months
27	Replace door switches **			✓	✓	✓	PSR102	Replace 24 months or when damaged
28	Vacuum out casework		✓	✓	✓	✓		
29	Refit all panels and plug the unit in to the electrical supply			✓	✓	✓		
30	Switch the oven on			✓	✓	✓		
31	Download error log file			✓	✓	✓		
32	Download cook count file			✓	✓	✓		
33	Complete recommission test and service report	✓		✓	✓	✓		
Total hrs/mins			0.5hrs	1hr	3hrs	4hrs		

- = checks that can be completed in visual view and should only take 10min to attend to and record findings in the results column
- = Optional outside of PM requirement
- = Mandatory
- = Daily operational checks

** Recommend replacing every 24 months

*** Recommend replacing every 48 months